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MONTHLY PROGRESS REPORT NO. 14
for the period April 1-30, 1977
to
ENVIRONMENTAL PROTECTION AGENCY
REGION VIII

1860 Lincoln St., Suite 900
Denver, CO 80203

Contract No. 68-01-1946

Colorado C-b Tract

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by

Aeromet, Inc.

Box FF

Norman, OK 73070

Colorado C-b Tract

1.0 INTRODUCTION

Low level temperature and wind data were collected for April, 1977 at Casper, Wyoming; near the Colorado C-b Tract 25 miles west of Rio Blanco, Colorado; Craig, Colorado; Escalante and Hanksville Utah; Rock Springs, Wyoming; and the U-a/U-b Tract 5 miles south of Bonanza, Utah. The data collection was made using a 30 gm helium filled pilot balloon with a temperature sonde attached, a single theodolite and a TSR-2 receiver/recorder twice a day every other day. The observations were made ½ hour after sunrise and 1400L.

The pilot balloon had an ascent rate of 500 ft/min and it was tracked by a single theodolite for 12 minutes with the azimuth and elevation angles recorded every 30 seconds on a cassette tape recorder. The tape was transcribed to a pilot balloon form after the observation.

The temperature sonde operated at 403 MHz and the signal was received by a ground plane antenna at least 24 ft. AGL which was attached to the Aeromet, Inc. TSR-2 receiver/recorder. The TSR-2 receiver has a built-in Rustrak strip chart recorder and the temperature was recorded within the range from -50°C to +50°C. A baseline temperature calibration was performed with each T-Sonde by the adjustment of the recorded temperature to match the thermometer measured temperature next to the transmitting sonde. Once the calibration check was finished the balloon was released with the sonde attached and the temperature was recorded for at least 20 minutes. At the completion of each observation the data were mailed to Aeromet, Inc.

The Monthly Progress Report is divided into seven parts, one corresponding to each of the seven field sites. The collected temperature and wind data are accurate and have not been edited unless otherwise stated in the Pilot Balloon Summary Section. However, the obvious errors sometimes found in the recorded azimuth and elevation angles are corrected without mention. For example, the sequence of azimuth angles . . . 76.6, 75.3, 47.8, 73.8 . . . can be corrected without ambiguity. The more ambiguous errors are brought to the attention of the reader if editing has been performed, otherwise, the data are left as recorded and the filtering is left to the individual user. An example is the wind profile for Hanksville on 06/29/76 at 1300 MST found in the Monthly Progress Report No. 4. The azimuth angles starting 30 seconds after the launch and incremented by the same are as follows . . . 109.0, 110.0, 110.0, 281.0, 280.0, 282.0 . . . , while the corresponding elevation angles are as follows, . . . 60.0, 57.6, 58.7, 58.6, 52.7, 44.3 . . . . The wind speed and direction change dramatically over the interval as can be seen in the report since these data were not edited.

2.0 DATA SUMMARY

2.1 Colorado C-b Tract Field Summary

No major problems were experienced at the site for the month of April. Frequent rain and snow storms continued to hamper the collection of wind data. The observer attempted 97% of the scheduled pilot balloon launches resulting in 97% recovery of the temperature data and 64% recovery of the wind data. The 33% loss in wind data was caused by snow and rain storms.

The afternoon balloon launches continued to be at 1400L, however, the time change to daylight savings time on 24 April puts the launch at 1300 MST. The times given in the report continue to be standard times (MST).

2.2 Mixing Layer Height

The average mixing layer height was computed for the morning and afternoon based on the morning and 1400L temperature soundings. The balloon release ½ hour after sunrise is near enough to the minimum temperature to assume the correctness of the calculated mixing layer heights. The afternoon balloon release is generally not at the time of maximum heating and the user of the mixing layer height data must be aware that minor changes in the calculated values can be expected. Without equipping the field sites with minimum/maximum thermometers the extrapolation of the afternoon data can not be justified in establishing a data base for statistical analysis. The approximation of the afternoon maximum temperature would be a "calculated guess" for there are: 1) local effects which are to be determined and would be filtered out with extrapolation, 2) mountain effects which alter the lower 1500m (e.g. downslope effects), and 3) meteorological effects which can alter the expected change in the sounding (e.g. advection, moisture, etc.).

It is felt that to better define the mixing layer height that a variety of "heat island" effects should be viewed. The rigorous method would be to define 15 "heat island" effects ranging from 0 to 14°C and let the user decide which would best serve his needs. However, for these analysis 0°, +5° and +10° "heat island" effects are calculated and listed for the morning and afternoon soundings in the table Average Mixing Layer Height.

The symbol N/D means that no mixing layer height was defined and sfc is the abbreviation for surface.

2.3 Stability and Inversion Classification

The temperature and wind data were edited to remove data felt to cause anomalous results in the stability and inversion classification schemes. Only the stations listed prior to the table classifying the inversions were used in the calculations.

3.0 DATA PROCESSING

3.1 Printed and Plotted Output

Wind speeds and directions are computed from the azimuth and elevation angles measured while tracking the balloon with the theodolite. The wind speed and direction are plotted versus height and printed out at 30 second intervals. The printed output includes the AGL and MSL height of the calculated wind value and the orthogonal components of the wind. The wind profile is also punched on computer cards at 30 second intervals.

The temperature data are processed and plotted with the temperature and the lapse rate per 300 meters versus height at 15 second intervals. Tic marks are placed on the temperature plot at significant levels. A solid line to the right side of the plot indicates the data for that layer are interpolated temperature values. The temperature data are also printed out and punched on cards. The asterisk beside a height value indicates a significant level while a "?" indicates interpolated data.

The temperature data are also processed to produce for each site a monthly summary of inversion layers and lapse rates within the inversions and from the inversion base to the surface by means of the Holzworth classification scheme for inversions (Holzworth, G.C., 1974: "Climatological Data on Atmospheric Stability in the United States" Paper presented at the American Meteorological Society Symposium on Atmospheric Diffusion and Air Pollution, September 9-13, 1974. Santa Barbara, California.)

The temperature and wind data are processed together to produce for each site a monthly average bivariate frequency distribution of wind direction versus wind speed represented in the 500m layer adjacent to the ground. The distribution is presented by the six Pasquill stability classes (A-F) and a summary independent of stability. If the $\Delta T/100m$ criterion is met but the wind speed criterion is not met, then the

STABILITY CLASS	ΔT (°C/100m)	WIND SPEED
A	<-1.9	≤ 2
B	-1.9 - -1.7	≤ 5
C	-1.7 - -1.5	≤ 6
D	-1.5 - -0.5	ALL SPEEDS
E	-0.5 - 1.5	≤ 5
F	>1.5	≤ 3

wind data are checked against the criterion for the next stability class, always cascading to the D stability class. Once the wind speed criterion is met the data are classified under the new stability class even though now the lapse rate exceeds the class criterion. For example,

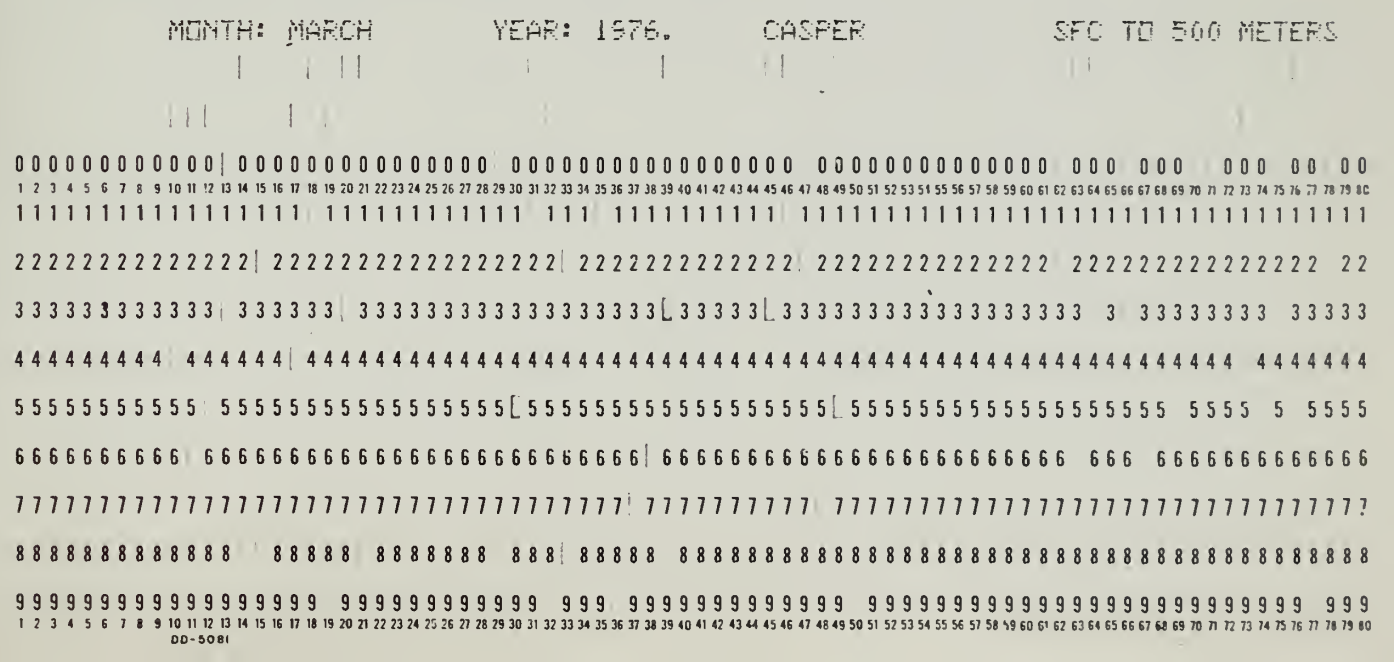
if the $\Delta T/100m$ value is 1.7 and the wind speed is 7 m/s, the lapse rate criterion is met for the stability class F, however the wind speed criterion is exceeded. The wind speed is greater than the 5 m/s maximum limit for class E but falls within the criterion of class D, which includes all wind speeds. As a result the observational data with a ΔT value of 1.7°C/100 m and a wind speed value of 7 m/s are classified under stability class D, not class F.

The data are also punched on computer cards in a format compatible with the STAR PROGRAM of the National Climatic Center, NOAA, U.S. Department of Commerce.

3.2 Punched Output

The punched temperature and wind data for each observation are categorized into four groups, each separated by a blank card. The first group begins with a header card listing the station name (3A4), the station elevation in meters (I4), the month, date and year (I6), the observation time (I4), the time zone (A3), the balloon ascent rate in feet per minute (I3), the sampling interval in seconds (I2), the temperature error in °C (F5.1), the T-Sonde I.D. number (I5) and the surface wind speed in kts and direction (2F6.1). A surface wind speed of 180.0 KTS indicates missing surface wind data. The series of cards prior to the first blank card include on each card the elapse time in minutes (2X,F5.1), the height of the balloon in meters AGL (4X,F5.0), the height of the balloon in meters MSL(4X,F5.0), the temperature in °C (4X,F6.2), the change in temperature between standard or significant levels (2X,F6.2), the lapse rate per 300m (2X,F6.2), the difference in the lapse rate per 300m and the dry adiabatic lapse rate per 300m (2X,F6.2), the wind speed in m/s if known (4X,F5.1), and the wind direction if known (3X,F5.0). The cards following the first blank card include on each card the elapse time in minutes (2X,F5.1), the height in meters AGL (4X,F5.0), the height in meters MSL (4X,F5.0), the u-component of the wind in m/s (4X,F6.1), the v-component of the wind in m/s (6X,F6.1), the wind speed in m/s (7X,F5.1), the wind direction (6X,F5.0), the elevation angle in degrees (F5.1) and the azimuth angle in degrees (F5.1). The cards after the second blank card include a header card like before and a series of cards with four groups of the following on each card; the height in meters AGL (F6.1), the temperature in °C (F6.2), the lapse rate °C/300m (F6.2) and a blank space (1X). The cards after the third blank card include a header card the same as described earlier, eight cards with the original digitized temperature data and a flag to indicate interpolated data (20(F3.1,I1)), five cards with the elevation angle in degrees (16F5.1), and five cards with the azimuth angle in degrees (16F5.1). The temperature data are in degrees Celsius and have 50°C added to each value. An elevation angle of 180° indicates a missing azimuth and elevation angle value.

The punched output from the bivariate frequency distribution calculations include a header card as illustrated below,



and the punched distribution data for each wind direction under each stability class in agreement with the "star" output. The stability classes are number coded as follows:

STABILITY CLASS	NUMBER CODE
A	1
B	2
C	3
D	4
E	5
F	6
Independent of Stability	7

The station I.D. numbers are as follows:

STATION	I.D. NUMBER
Casper, Wyoming	1
Colorado C-b Tract	2
Craig, Colorado	3
Escalante, Utah	4
Hanksville, Utah	5
Rock Springs, Wyoming	6
Utah U-a/U-b Tract	7

The month and season number codes are as follows:

MONTH	1-12
SEASON	13 = DJF
	14 = MAM
	15 = JJA
	16 = SON
ANNUAL	17

PILOT BALLOON SUMMARY
Colorado C-b Tract
April, 1977

April 1	0800 1420	No wind observations taken due to snow and high winds.
April 3	0800	
	1400	Balloon was lost in the clouds after 8 1/2 minutes.
April 5	0800	
	1400	
April 7	0745	
	1400	Balloon was lost from sight after 3 1/2 minutes when observer attempted to adjust receiver.
April 9	0800	Balloon was lost in the clouds after 10 minutes.
	1350	
April 11	0800	
	1400	No wind observations taken due to rain.
April 13	0800 1430	No wind data received due to rain and snow.
April 15	0800	No wind data received due to snow.
	1415	No wind observations taken due to rain. Temperature values had to be interpolated over the interval from 5 1/2 to 13 minutes due to power failure.
April 17	0815	
	1400	

PILOT BALLOON SUMMARY
Colorado C-b Tract
April, 1977

April 19	0800	Balloon was lost in the clouds after 4 1/2 minutes.
	1400	No wind observations taken due to snow.
April 21	0800	
	1400	
April 23	0750	
	1345	
April 25	0800	
	AFTN	No data received.
April 27	0800	Balloon entered the clouds after 14 minutes. Temperature values were interpolated over the interval from 1/2 to 9 3/4 minutes.
	1300	No wind observations taken due to thunderstorm in vicinity.
April 29	0800	
	1400	No wind observations taken due to rain.

AVERAGE MIXING LAYER HEIGHT

Colorado C-b Tract

April, 1977

HEIGHT IN METERS

	MORNING			AFTERNOON		
DATE	0°	+5°	+10°	0°	+5°	+10°
1	150m	1200m	3150m	400m	1250m	3150m
3	sfc	550m	1650m	1050m	2250m	2950m
5	75m	500m	1750m	200m	1750m	2950m
7	sfc	250m	1000m	1700m	3250m	N/D
9	50m	1650m	1950m	3050m	3750m	N/D
11	sfc	650m	1850m	sfc	1650m	3150m
13	400m	1200m	3200m	1500m	2400m	N/D
15	300m	1000m	1300m	550m	1100m	1800m
17	sfc	250m	1250m	100m	600m	2050m
19	100m	950m	1550m	100m	1050m	1400m
21	50m	350m	1650m	750m	3750m	N/D
23	sfc	250m	450m	400m	2050m	2650m
25	sfc	150m	350m			
27	150m	900m	2950m	50m		
29	50m	450m	2200m	75m	1150m	3150m

CLOUD COVER AND SIGNIFICANT WEATHER
Colorado C-b Tract
April, 1977

DATE	MORNING	AFTERNOON
1	broken, snow, windy	overcast, snow, windy
3	scattered, snow	scattered
5	scattered	scattered
7	clear	scattered
9	clear	clear
11	overcast, rain S	overcast, thundershower
13	overcast, snow, rain	overcast, thundershower
15	overcast, snow	overcast, rain
17	clear	scattered
19	overcast	overcast, snow
21	clear	scattered
23	clear	clear
25	scattered	
27	overcast	overcast, thundershower
29	broken	broken, rain

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4503

DATE 04/01/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
305.	381.	0.0	-0.72

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4519

DATE 04/01/77 TIME 10:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	76.	0.26	-2.05

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/03/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	305.	0.42	0.0

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4505

DATE 04/03/77 TIME 10:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
624.	662.	0.0	-1.17

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	724.	0.07	-0.62

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/05/77 TIME 10:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
343.	419.	0.0	-0.78

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/07/77 TIME 07:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	381.	0.74	0.0

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1274.	1312.	0.24	-1.08

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4521

DATE 04/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
38.	76.	1.21	-1.68

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4501

DATE 04/09/77 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

THERE ARE NO INVERSION BASES WITHIN 0M OF THE SFC

LAYER BASE METERS AGL	LAYER TOP METERS AGL	DT/DZ (DEG C)/100M
0.	100.	-1.97
100.	250.	-0.94
250.	500.	-1.16
500.	750.	-1.07
750.	1000.	-1.09
1000.	1500.	-0.97

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4522

DATE 04/11/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	305.	0.06	0.0

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	76.	0.0	0.0

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4516

DATE 04/13/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
396.	434.	0.0	-1.05

****

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4511

DATE 04/13/77 TIME 14:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
429.	505.	0.0	-1.29

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4512

DATE 04/15/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
615.	1491.	0.31	-0.75

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4508

DATE 04/15/77 TIME 14:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
163.	202.	0.0	-2.14

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4517

DATE 04/17/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	381.	0.58	0.0

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/17/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	152.	0.24	-1.17

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
229.	267.	0.0	-0.67

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
504.	1456.	0.12	-0.86

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4514

DATE 04/21/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
114.	267.	1.42	-0.41

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3380

DATE 04/21/77 TIME 10:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
355.	393.	0.0	-1.33

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3384

DATE 04/23/77 TIME 07:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	686.	1.00	0.0

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3378

DATE 04/23/77 TIME 13:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	131.	0.33	-3.01

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3370

DATE 04/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
0.	572.	1.26	0.0

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3379

DATE 04/27/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
1067.	1105.	0.0	-0.41

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3383

DATE 04/27/77 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
76.	191.	0.08	-0.24

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4614

DATE 04/29/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
114.	610.	0.19	-0.33

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4613

DATE 04/29/77 TIME 1400MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

INV BASE METERS AGL	INV TOP METERS AGL	INV DT/DZ (DEG C)/100M	DT/DZ BELOW INV (DEG C)/100M
114.	191.	0.0	-0.73

MONTH: ARRIL YEAR: 1977. COL CB TRACT ELEV 2025 METERS

HOLZWORTHIS CLASSIFICATION SCHEME FOR INVERSIONS
MODIFIED TO SHOW TOTAL NUMBER INSTEAD OF PERCENT

THICKNESS (METERS)	INVERSION BASE HEIGHT (M) SFC	1-100	101-250	251-500	501-750	751-1000	1000-1500	1501-2000	2001-2500	2501-3000	TOTAL
1 - 100	1	4	3	5	1	0	2	0	0	0	16
101 - 250	0	1	1	0	0	0	0	0	0	0	2
251 - 500	4	0	1	0	0	0	0	0	0	0	5
501 - 750	2	1	0	0	0	0	0	0	0	0	3
751 - 1000	0	0	0	0	2	0	0	0	0	0	2
1001 - 1500	0	0	0	0	0	0	0	0	0	0	0
> 1500	0	0	0	0	0	0	0	0	0	0	0
INV TOTAL	7	6	5	5	3	0	2	0	0	0	28
DT/DZ 5		1	1	0	0	0	0	0	0	0	2
FROM INV 4		1	3	2	1	0	1	0	0	0	8
BASE 3		1	0	1	2	0	1	0	0	0	5
TO 2		0	0	2	0	0	0	0	0	0	2
SFC 1		3	1	0	0	0	0	0	0	0	4
NO INV TOT		1	1	1	1	1	1	DT/DZ (DEG C)/100M			
DT/DZ FOR 5		0	0	0	0	0	0	5= 0.00 TO -0.40			
SAME 4		0	0	0	0	0	0	4=-0.41 TO -0.80			
LAYERS 3		0	1	1	1	1	1	3=-0.81 TO -1.20			
AS INV 2		0	0	0	0	0	0	2=-1.21 TO -1.60			
BASE 1		1	0	0	0	0	0	1=<-1.60			

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE A STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE B STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE C STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: ARRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.11	0.0	0.0	0.0	0.0	4.1	0.11
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.11	0.0	0.0	0.0	0.0	3.4	0.11
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.11	0.0	0.0	0.0	0.0	0.0	0.4	0.11
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.11	0.0	0.0	0.0	0.0	6.0	0.11
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.11	0.0	0.0	0.0	7.3	0.11
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.11	0.0	0.0	0.0	0.0	3.3	0.11
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.11	0.0	0.0	0.0	0.0	3.1	0.11
NNW	0.0	0.11	0.11	0.0	0.0	0.0	5.5	0.22
AVG SPEED	0.4	3.9	7.4	0.0	0.0	0.0		0.0
TOTAL	0.11	0.67	0.22	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE D STABILITY CLASS IS 0.47

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.30	0.20	0.0	0.0	0.0	0.0	1.8	0.50
SE	0.10	0.0	0.0	0.0	0.0	0.0	0.9	0.10
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.10	0.0	0.0	0.0	0.0	0.0	1.8	0.10
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.10	0.0	0.0	0.0	0.0	0.0	1.2	0.10
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.10	0.0	0.0	0.0	0.0	3.1	0.10
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.10	0.0	0.0	0.0	0.0	4.0	0.10
AVG SPEED	1.1	3.4	0.0	0.0	0.0	0.0		0.0
TOTAL	0.60	0.40	0.0	0.0	0.0	0.0		1.00

RELATIVE FREQUENCY OF OCCURRENCE OF THE E STABILITY CLASS IS 0.53

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
S	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
W	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
AVG SPEED	0.0	0.0	0.0	0.0	0.0	0.0		0.0
TOTAL	0.0	0.0	0.0	0.0	0.0	0.0		0.0

RELATIVE FREQUENCY OF OCCURRENCE OF THE F STABILITY CLASS IS 0.0

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

MONTH: APRIL YEAR: 1977. COL CB TRACT SFC TO 500 METERS

NORMALIZED FREQUENCY DISTRIBUTION

DIRECTION	SPEED (METER/SEC) 0-3	4-6	7-10	11-16	17-21	GREATER THAN 21	AVERAGE SPEED	TOTAL
N	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
NNE	0.0	0.05	0.0	0.0	0.0	0.0	4.1	0.05
NE	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ENE	0.0	0.05	0.0	0.0	0.0	0.0	3.4	0.05
E	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
ESE	0.21	0.11	0.0	0.0	0.0	0.0	1.6	0.32
SE	0.05	0.0	0.0	0.0	0.0	0.0	0.9	0.05
SSE	0.0	0.05	0.0	0.0	0.0	0.0	6.0	0.05
S	0.05	0.0	0.0	0.0	0.0	0.0	1.8	0.05
SSW	0.0	0.0	0.05	0.0	0.0	0.0	7.3	0.05
SW	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
WSW	0.05	0.0	0.0	0.0	0.0	0.0	1.2	0.05
W	0.0	0.05	0.0	0.0	0.0	0.0	3.3	0.05
WNW	0.0	0.05	0.0	0.0	0.0	0.0	3.1	0.05
NW	0.0	0.05	0.0	0.0	0.0	0.0	3.1	0.05
NNW	0.0	0.11	0.05	0.0	0.0	0.0	5.0	0.16
AVG SPEED	1.0	3.7	7.4	0.0	0.0	0.0		0.0
TOTAL	0.37	0.53	0.11	0.0	0.0	0.0		1.00

NORMALIZED FREQUENCY DISTRIBUTION INDEPENDENT OF STABILITY

RELATIVE FREQUENCY OF CALM 0.0

A TOTAL OF 10 SOUNDINGS FROM A SAMPLE OF 29 SOUNDINGS DID NOT HAVE 500 M OF TEMP AND WIND DATA

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4503

DATE 04/01/77 TIME 0810OMST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		0.35		0.0		0.0	0.
1:00	150	2175	-1.18	-1.53	-2.27	0.65	M	M
2:00	300	2325	-1.86	-0.68	-0.76	2.17	M	M
3:01	475.	2500.	-2.70	-0.85	-0.95	1.98	M	M
3:23	500	2525	-2.73	-0.03	-1.52	1.40	M	M
6:24	975.	3000.	-5.35	-2.62	-2.11	0.82	M	M
12:39	1975.	4000.	-12.84	-7.50	-2.94	-0.01		
19:55	2975.	5000.	-20.06	-7.22	-2.19	0.74		
25:23	3975.	6000.	-28.00	-7.93	-3.02	-0.09		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4503

DATE 04/01/77 TIME 0810OMST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0:00	0.	2025.	0.0	0.0	0.0	0.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4519

DATE 04/01/77 TIME 14:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-6.14		0.0		2.6	360.
0.9	150	2175	-7.88	-1.75	-4.25	-1.33	M	M
1.8	300	2325	-9.53	-1.65	-1.75	1.18	M	M
2.9	475.	2500.	-10.26	-0.73	-1.95	0.98	M	M
3.1	500	2525	-10.45	-0.19	-2.53	0.40	M	M
6.2	975.	3000.	-12.05	-1.60	-1.37	1.56	M	M
12.3	1975.	4000.	-19.96	-7.91	0.20	3.13		
18.8	2975.	5000.	-26.76	-6.80	-4.83	-1.90		
24.4	3975.	6000.	-33.65	-6.89	-4.46	-1.54		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4519

DATE 04/01/77 TIME 14:20MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-2.6	2.6	360.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/03/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-4.48		0.0		2.6	360.
1.0	150	2175	-4.66	-0.18	-0.76	2.16	2.8	333.
2.0	300	2325	-3.22	1.44	-2.49	0.44	4.0	342.
2.9	475.	2500.	-5.75	-2.52	-1.54	1.39	6.2	347.
3.0	500	2525	-5.75	0.0	-1.54	1.39	6.7	348.
5.9	975.	3000.	-7.61	-1.86	-0.77	2.15	10.5	6.
12.4	1975.	4000.	-13.54	-5.93	-3.73	-0.80	9.9	305.
18.9	2975.	5000.	-18.86	-5.32	0.99	3.92		
24.5	3975.	6000.	-27.47	-8.62	-4.43	-1.50		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/03/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-2.6	2.6	360.
0.5	76.	2101.	2.1	-1.9	2.8	311.
1.0	152.	2177.	1.3	-2.6	2.8	334.
1.5	229.	2254.	1.5	-3.2	3.5	334.
2.0	305.	2330.	1.2	-3.8	4.0	342.
2.5	392.	2417.	1.5	-4.3	4.6	341.
3.0	508.	2533.	1.3	-6.7	6.9	349.
3.5	585.	2610.	-1.0	-5.0	5.1	11.
4.0	661.	2686.	-1.7	-5.3	5.6	18.
4.5	745.	2770.	-2.0	-6.6	6.9	17.
5.0	832.	2857.	-2.3	-9.2	9.5	14.
5.5	909.	2934.	-2.0	-9.3	9.5	12.
6.0	985.	3010.	-1.4	-10.6	10.7	8.
6.5	1061.	3086.	-1.3	-10.9	11.0	7.
7.0	1137.	3162.	-1.8	-11.1	11.3	9.
7.5	1213.	3238.	-2.2	-10.9	11.1	11.
8.0	1290.	3315.	-2.6	-11.3	11.7	15.
8.5	1366.	3391.	-1.8	-10.5	10.6	10.
9.0	1442.	3467.	-0.5	-10.5	10.5	3.
9.5	1520.	3545.	0.4	-12.9	12.9	358.
10.0	1596.	3621.	0.5	-11.9	11.9	358.
10.5	1672.	3697.	0.4	-11.6	11.6	358.
11.0	1748.	3773.	-0.1	-11.0	11.0	0.
11.5	1828.	3853.	0.0	-10.7	10.7	360.
12.0	1905.	3930.	-0.2	-9.2	9.2	1.
12.5	1987.	4012.	0.2	-10.1	10.1	359.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4505

DATE 04/03/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		4.45		0.0		5.1	360.
0.7	150	2175	1.75	-2.70	-5.09	-2.16	5.9	313.
1.2	300	2325	0.08	-1.67	-2.83	0.09	8.6	324.
2.2	475.	2500.	-1.76	-1.77	-4.37	-1.44	8.8	336.
2.4	500	2525	-1.73	-0.04	-4.37	-1.44	9.1	332.
5.2	975.	3000.	-5.65	-3.23	-2.30	0.62	10.3	225.
10.7	1975.	4000.	-10.67	-5.70	2.93	5.86	M	M
17.1	2975.	5000.	-13.54	-2.88	0.98	3.91		
23.6	3975.	6000.	-19.06	-5.51	-1.79	1.14		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4505

DATE 04/03/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-5.1	5.1	360.
0.5	76.	2101.	2.8	-2.2	3.5	309.
1.0	241.	2266.	5.9	-6.6	8.8	319.
1.5	360.	2385.	4.2	-7.1	8.3	330.
2.0	437.	2462.	3.5	-7.5	8.2	335.
2.5	520.	2545.	4.4	-8.3	9.4	332.
3.0	624.	2649.	4.9	-11.8	12.8	338.
3.5	700.	2725.	4.9	-12.2	13.1	338.
4.0	790.	2815.	5.2	-12.5	13.5	338.
4.5	872.	2897.	5.6	-12.4	13.6	336.
5.0	948.	2973.	3.6	-11.8	12.4	343.
5.5	1024.	3049.	-0.7	-6.4	6.5	6.
6.0	1101.	3126.	-1.1	-4.8	4.9	13.
6.5	1177.	3202.	-1.6	-5.3	5.5	16.
7.0	1257.	3282.	0.6	-9.0	9.0	356.
7.5	1362.	3387.	0.9	-10.8	10.9	356.
8.0	1456.	3481.	0.3	-10.6	10.6	358.
8.5	1543.	3568.	-1.0	-9.4	9.5	6.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		3.69		0.0		0.0	0.
1.0	150	2175	3.50	-0.19	0.0	2.93	0.5	102.
2.0	300	2325	3.21	-0.28	-0.94	1.99	2.0	134.
3.1	475.	2500.	3.50	-0.29	0.37	3.30	0.9	45.
3.3	500	2525	3.47	0.54	0.37	3.30	1.2	39.
6.2	975.	3000.	0.35	-2.73	-4.16	-1.23	7.1	330.
12.1	1975.	4000.	-5.65	-5.89	-3.26	-0.34	7.8	3.
18.3	2975.	5000.	-10.85	-5.70	-3.51	-0.58		
24.2	3975.	6000.	-12.35	-1.50	-1.56	1.36		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/05/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	0.0	0.0	0.
0.5	76.	2101.	-0.4	0.3	0.5	126.
1.0	152.	2177.	-0.5	0.1	0.5	101.
1.5	229.	2254.	-0.4	1.8	1.9	168.
2.0	305.	2330.	-1.4	1.3	2.0	132.
2.5	381.	2406.	-0.9	0.0	0.9	92.
3.0	457.	2482.	-0.6	-0.5	0.7	49.
3.5	533.	2558.	-0.9	-1.4	1.6	32.
4.0	610.	2635.	0.3	-3.0	3.0	355.
4.5	686.	2711.	1.3	-4.2	4.4	343.
5.0	762.	2787.	1.5	-4.8	5.0	342.
5.5	852.	2877.	2.2	-6.0	6.4	340.
6.0	945.	2970.	2.7	-6.3	6.9	337.
6.5	1031.	3056.	3.4	-6.9	7.7	334.
7.0	1147.	3172.	4.1	-8.1	9.0	333.
7.5	1255.	3280.	3.6	-8.9	9.6	338.
8.0	1334.	3359.	3.2	-8.3	8.9	339.
8.5	1410.	3435.	2.6	-8.3	8.7	343.
9.0	1487.	3512.	2.5	-8.2	8.5	343.
9.5	1563.	3588.	2.3	-7.9	8.3	344.
10.0	1650.	3675.	2.9	-8.1	8.6	340.
10.5	1727.	3752.	2.0	-8.0	8.2	346.
11.0	1803.	3828.	0.8	-9.5	9.5	355.
11.5	1879.	3904.	-0.3	-8.4	8.4	2.
12.0	1955.	3980.	-0.4	-7.8	7.8	3.
12.5	2031.	4056.	-0.4	-8.0	8.0	3.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/05/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		11.36		0.0		2.6	360.
1.0	150	2175	10.07	-1.29	-2.19	0.74	4.6	16.
2.0	300	2325	9.23	-0.84	-1.46	1.46	3.9	42.
3.1	475.	2500.	7.65	-1.11	-2.02	0.91	4.9	40.
3.3	500	2525	7.68	-0.45	-2.02	0.91	4.8	36.
6.4	975.	3000.	4.17	-3.51	-2.61	0.32	2.9	334.
12.9	1975.	4000.	-2.83	-7.00	-1.91	1.02	3.3	299.
19.4	2975.	5000.	-6.72	-3.90	1.93	4.66		
25.4	3975.	6000.	-10.86	-4.13	-4.87	-1.94		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4504

DATE 04/05/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-2.6	2.6	360.
0.5	76.	2101.	-0.9	-2.5	2.6	20.
1.0	152.	2177.	-1.4	-4.4	4.6	18.
1.5	229.	2254.	-2.1	-3.6	4.2	30.
2.0	305.	2330.	-2.6	-2.9	3.9	42.
2.5	381.	2406.	-3.2	-3.3	4.6	44.
3.0	457.	2482.	-3.4	-3.7	5.0	42.
3.5	533.	2558.	-2.8	-3.9	4.6	32.
4.0	610.	2635.	-2.2	-3.7	4.3	30.
4.5	686.	2711.	-2.4	-3.8	4.5	32.
5.0	762.	2787.	-0.6	-4.8	4.8	7.
5.5	838.	2863.	-1.6	-6.3	6.5	14.
6.0	914.	2939.	1.5	-4.7	4.9	342.
6.5	991.	3016.	1.1	-2.1	2.4	332.
7.0	1067.	3092.	0.6	-2.3	2.4	345.
7.5	1148.	3173.	0.8	-2.1	2.3	340.
8.0	1224.	3249.	2.3	-1.0	2.5	294.
8.5	1300.	3325.	1.4	-1.4	1.9	315.
9.0	1376.	3401.	1.7	-1.2	2.1	306.
9.5	1452.	3477.	0.9	-1.3	1.6	326.
10.0	1531.	3556.	1.3	-2.0	2.4	326.
10.5	1607.	3632.	1.8	-3.4	3.8	332.
11.0	1684.	3709.	2.6	-3.9	4.6	327.
11.5	1760.	3785.	2.6	-4.1	4.8	327.
12.0	1836.	3861.	3.4	-4.8	5.9	325.
12.5	1912.	3937.	3.6	-3.1	4.8	311.
13.0	1989.	4014.	2.6	-1.3	2.9	297.
13.5	2065.	4090.	1.5	-0.8	1.8	302.
14.0	2141.	4166.	1.4	-1.1	1.8	308.
14.5	2219.	4244.	1.3	-2.0	2.4	328.
15.0	2295.	4320.	0.8	-2.3	2.3	350.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/07/77 TIME 07:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		-2.23		0.0		1.0	90.
0.5	* 76	2101	-2.23		4.79	7.72		
1.0	150	2175	0.19	2.42	5.16	8.09	4.6	89.
2.0	300	2325	0.39	0.20	0.37	3.29	4.0	100.
3.1	475.	2500.	0.21	-0.01	-0.92	2.01	2.6	163.
3.3	500	2525	0.22	-0.17	-0.92	2.01	3.1	175.
6.4	975.	3000.	-2.23	-2.44	-1.67	1.26	1.4	133.
12.7	1975.	4000.	-9.86	-7.06	-2.28	0.65	4.5	282.
18.9	2975.	5000.	-15.90	-6.62	-2.52	0.41		
25.1	3975.	6000.	-24.04	-8.14	-1.97	0.96		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/07/77 TIME 07:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-1.0	-0.0	1.0	90.
0.5	76.	2101.	-1.5	1.0	1.8	123.
1.0	152.	2177.	-4.7	-0.2	4.7	88.
1.5	229.	2254.	-5.8	0.8	5.9	97.
2.0	305.	2330.	-3.8	0.7	3.9	100.
2.5	381.	2406.	-2.3	1.8	2.9	127.
3.0	457.	2482.	-1.0	2.1	2.3	154.
3.5	533.	2558.	0.7	3.6	3.7	191.
4.0	610.	2635.	1.7	3.9	4.3	204.
4.5	686.	2711.	2.4	2.6	3.5	223.
5.0	762.	2787.	0.9	1.9	2.1	205.
5.5	838.	2863.	-0.3	1.7	1.7	170.
6.0	914.	2939.	-0.9	1.5	1.7	148.
6.5	991.	3016.	-1.0	0.8	1.3	129.
7.0	1067.	3092.	-1.4	1.4	2.0	136.
7.5	1143.	3168.	-0.7	1.8	1.9	160.
8.0	1219.	3244.	0.6	1.8	1.9	198.
8.5	1295.	3320.	1.6	1.5	2.2	227.
9.0	1372.	3397.	2.6	0.3	2.6	263.
9.5	1448.	3473.	2.5	-0.2	2.5	275.
10.0	1524.	3549.	2.8	-0.9	2.9	286.
10.5	1605.	3630.	3.3	-1.3	3.6	292.
11.0	1703.	3728.	2.7	-0.8	2.8	288.
11.5	1779.	3804.	3.3	-1.1	3.5	288.
12.0	1856.	3881.	3.9	-1.0	4.0	284.
12.5	1932.	3957.	4.0	-1.1	4.1	286.
13.0	2021.	4046.	4.7	-0.7	4.8	278.
13.5	2097.	4122.	5.0	-0.8	5.0	279.
14.0	2173.	4198.	6.5	-0.6	6.6	275.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		18.43		0.0		2.6	270.
0.8	150	2175	15.49	-2.94	-3.39	-0.46	2.1	270.
1.5	300	2325	13.55	-1.93	-5.40	-2.48	3.2	277.
2.2	475.	2500.	11.36	-1.45	-5.07	-2.14	4.9	266.
2.3	500	2525	11.42	-0.69	-5.07	-2.14	4.8	262.
4.2	975.	3000.	6.73	-4.69	-4.05	-1.12	M	M
10.4	1975.	4000.	-0.12	-6.84	-5.49	-2.56	M	M
16.2	2975.	5000.	-7.60	-7.49	-3.67	-0.74		
22.2	3975.	6000.	-13.54	-5.94	-1.96	0.97		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/07/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	2.6	0.0	2.6	270.
0.5	76.	2101.	1.4	0.0	1.4	268.
1.0	198.	2223.	2.5	-0.1	2.5	271.
1.5	291.	2316.	3.0	-0.4	3.1	277.
2.0	412.	2437.	5.3	-0.4	5.3	274.
2.5	542.	2567.	4.4	1.1	4.5	256.
3.0	671.	2696.	3.2	5.2	6.2	212.
3.5	791.	2816.	1.5	6.3	6.5	193.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4521

DATE 04/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		15.70		0.0		2.6	170.
1.0	150	2175	14.83	-0.90	-2.68	0.25	5.9	134.
1.9	300	2325	13.30	-1.53	-3.59	-0.67	5.9	128.
2.8	475.	2500.	11.17	-2.06	-4.35	-1.42	7.4	165.
2.9	500	2525	11.20	-0.04	-4.35	-1.42	7.7	165.
5.2	975.	3000.	6.71	-4.48	-1.48	1.45	13.1	186.
11.7	1975.	4000.	6.52	-0.19	5.54	8.46	M	M

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4521

DATE 04/09/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-0.4	2.5	2.6	170.
0.5	76.	2101.	-2.3	4.7	5.3	154.
1.0	152.	2177.	-4.3	4.1	5.9	134.
1.5	229.	2254.	-4.8	3.1	5.8	122.
2.0	313.	2338.	-4.6	3.8	5.9	130.
2.5	400.	2425.	-1.7	6.2	6.4	165.
3.0	512.	2537.	-2.1	7.5	7.8	165.
3.5	637.	2662.	-0.5	8.8	8.9	177.
4.0	734.	2759.	0.1	12.3	12.3	181.
4.5	839.	2864.	1.0	11.8	11.8	185.
5.0	944.	2969.	1.1	12.2	12.3	185.
5.5	1020.	3045.	2.7	14.1	14.4	191.
6.0	1096.	3121.	2.4	14.9	15.1	189.
6.5	1181.	3206.	3.6	14.4	14.9	194.
7.0	1257.	3282.	4.1	18.1	18.6	193.
7.5	1333.	3358.	4.7	18.9	19.5	194.
8.0	1409.	3434.	5.3	20.3	21.0	195.
8.5	1486.	3511.	5.1	21.6	22.2	193.
9.0	1562.	3587.	6.0	20.3	20.9	193.
9.5	1638.	3663.	6.7	26.3	27.1	194.
10.0	1714.	3739.	7.3	27.4	28.3	195.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4501

DATE 04/09/77 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		20.91		0.0		7.7	180.
0.8	150	2175	18.40	-2.51	-5.81	-2.88	6.7	187.
1.3	300	2325	16.38	-2.02	-10.00	-7.20	7.4	193.
1.7	475.	2500.	13.19	-1.52	-10.00	-7.85	9.4	195.
1.8	500	2525	13.49	-1.37	-10.00	-7.85	9.9	196.
2.7	975.	3000.	8.11	-4.14	-8.62	-5.69	13.4	198.
5.3	1975.	4000.	-1.09	-10.41	-3.97	-1.05	13.9	187.
7.3	*2363	4388	-3.12		-7.66	-4.73		
9.9	2975.	5000.	-10.07	-9.00	-0.39	2.54	15.2	208.
16.3	3975.	6000.	-9.77	0.29	0.97	3.90		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4501

DATE 04/09/77 TIME 13:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-0.0	7.7	7.7	180.
0.5	76.	2101.	-0.1	4.6	4.6	179.
1.0	189.	2214.	1.6	7.7	7.9	192.
1.5	358.	2383.	1.7	6.9	7.1	194.
2.0	612.	2637.	3.5	11.6	12.1	197.
2.5	866.	2891.	5.0	12.4	13.4	202.
3.0	1120.	3145.	2.9	13.0	13.4	193.
3.5	1323.	3348.	4.0	13.2	13.8	197.
4.0	1475.	3500.	3.3	10.7	11.2	197.
4.5	1660.	3685.	3.3	11.9	12.3	195.
5.0	1872.	3897.	2.8	14.6	14.9	191.
5.5	2042.	4067.	1.0	13.2	13.2	184.
6.0	2131.	4156.	1.6	8.5	8.6	191.
6.5	2207.	4232.	0.7	8.3	8.3	185.
7.0	2284.	4309.	1.1	9.3	9.3	187.
7.5	2461.	4486.	3.3	20.1	20.3	189.
8.0	2636.	4661.	2.4	20.4	20.6	187.
8.5	2721.	4746.	3.8	13.0	13.6	196.
9.0	2804.	4829.	5.1	11.5	12.6	204.
9.5	2902.	4927.	7.0	12.9	14.7	208.
10.0	3001.	5026.	7.2	13.6	15.4	208.
10.5	3077.	5102.	8.3	12.2	14.8	214.
11.0	3153.	5178.	9.0	14.3	16.9	212.
11.5	3240.	5265.	9.6	17.9	20.3	208.
12.0	3321.	5346.	8.9	19.1	21.1	205.
12.5	3397.	5422.	8.5	18.7	20.5	204.
13.0	3477.	5502.	6.9	19.0	20.3	200.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4522

DATE 04/11/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.52		0.0		2.6	90.
1.0	150	2175	6.03	-0.09	0.0	2.93	0.6	115.
2.0	300	2325	6.71	0.28	0.0	2.93	1.8	263.
3.1	475.	2500.	5.77	-0.83	-1.67	1.26	2.0	234.
3.3	500	2525	5.78	-0.11	-1.67	1.26	2.1	234.
6.4	975.	3000.	5.39	-0.38	-2.41	0.52	5.7	222.
12.9	1975.	4000.	-2.25	-7.64	-1.90	1.02	4.7	141.
19.5	2975.	5000.	-9.38	-7.13	-2.33	0.60		
25.9	3975.	6000.	-18.05	-8.67	-0.20	2.73		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4522

DATE 04/11/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-2.6	-0.0	2.6	90.
0.5	76.	2101.	-2.0	0.6	2.1	107.
1.0	152.	2177.	-0.5	0.2	0.6	115.
1.5	229.	2254.	1.9	0.8	2.0	245.
2.0	305.	2330.	1.7	0.2	1.7	264.
2.5	381.	2406.	1.9	0.9	2.1	244.
3.0	457.	2482.	1.5	1.1	1.9	234.
3.5	533.	2558.	1.8	1.3	2.3	234.
4.0	610.	2635.	2.5	2.5	3.5	225.
4.5	686.	2711.	3.3	4.1	5.2	218.
5.0	762.	2787.	2.9	4.0	4.9	217.
5.5	838.	2863.	2.8	3.9	4.8	216.
6.0	914.	2939.	3.8	4.1	5.6	223.
6.5	991.	3016.	3.8	4.3	5.7	221.
7.0	1067.	3092.	4.2	4.5	6.2	224.
7.5	1143.	3168.	3.9	4.3	5.8	222.
8.0	1219.	3244.	3.5	4.0	5.4	221.
8.5	1295.	3320.	1.8	4.0	4.4	204.
9.0	1376.	3401.	1.6	3.6	3.9	204.
9.5	1453.	3478.	0.5	3.2	3.3	189.
10.0	1529.	3554.	0.6	2.4	2.5	193.
10.5	1605.	3630.	-0.1	2.7	2.7	179.
11.0	1681.	3706.	-0.8	2.5	2.6	162.
11.5	1760.	3785.	-1.1	2.9	3.1	159.
12.0	1836.	3861.	-2.0	3.4	4.0	149.
12.5	1913.	3938.	-2.8	3.9	4.7	144.
13.0	1989.	4014.	-3.0	3.6	4.7	141.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.28		0.0		M	M
1.0	150	2175	11.64	-0.64	-4.35	-1.42	M	M
1.6	300	2325	9.65	-1.99	-6.03	-3.10	M	M
2.3	475.	2500.	7.67	-1.98	-3.12	-0.19	M	M
2.4	500	2525	7.66	-0.01	-3.12	-0.19	M	M
5.5	975.	3000.	4.93	-2.73	-2.79	0.14	M	M
11.6	1975.	4000.	-0.90	-5.82	0.0	2.93	M	M
18.1	2975.	5000.	-6.63	-5.73	-2.89	0.04		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4507

DATE 04/11/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4516

DATE 04/13/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		7.46		0.0		M	M
0.8	150	2175	4.71	-2.75	-3.35	-0.42	M	M
1.6	300	2325	3.70	-1.01	-2.05	0.88	M	M
2.8	475.	2500.	3.22	-0.49	-0.19	2.74	M	M
2.9	500	2525	3.22	0.0	-0.19	2.74	M	M
6.1	975.	3000.	1.61	-1.61	-3.19	-0.27	M	M
12.2	1975.	4000.	-5.45	-7.06	-4.61	-1.68		
17.0	2975.	5000.	-15.04	-9.59	-1.38	1.55		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4516

DATE 04/13/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CR TRACT ELEV 2025 METERS SOUNDING ID 4511

DATE 04/13/77 TIME 14:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		13.92		0.0		M	M
0.8	150	2175	11.05	-2.87	-5.45	-2.52	M	M
1.3	300	2325	9.57	-1.48	-5.11	-2.18	M	M
1.9	475.	2500.	8.39	-1.17	-4.22	-1.29	M	M
2.0	500	2525	8.39	0.0	-4.22	-1.29	M	M
3.6	975.	3000.	2.95	-5.44	-5.98	-3.06	M	M
9.2	1975.	4000.	-2.05	-5.00	-4.38	-1.45	M	M
15.3	2975.	5000.	-7.40	-5.36	-2.51	0.42		
21.5	3975.	6000.	-14.84	-7.44	-1.38	1.55		

COL CR TRACT ELEV 2025 METERS SOUNDING ID 4511

DATE 04/13/77 TIME 14:30MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4512

DATE 04/15/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.55		0.0		M	M
1.0	150	2175	0.84	-1.71	-1.51	1.42	M	M
1.9	300	2325	-0.30	-1.15	-2.65	0.28	M	M
3.1	475.	2500.	-1.46	-1.16	-1.90	1.03	M	M
3.2	500	2525	-1.47	-0.01	-1.90	1.03	M	M
6.4	975.	3000.	-2.24	-0.77	0.19	3.12	M	M
12.9	1975.	4000.	-2.25	-0.00	-0.38	2.55		
19.5	2975.	5000.	-7.70	-5.46	-3.09	-0.17		
26.0	3975.	6000.	-14.64	-6.94	-0.39	2.53		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4512

DATE 04/15/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4508

DATE 04/15/77 TIME 14:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		7.18		0.0		M	M
0.7	150	2175	3.73	-3.45	-2.61	0.32	M	M
1.6	300	2325	2.86	-0.87	-2.06	0.87	M	M
2.8	475.	2500.	2.25	-0.60	-1.31	1.61	M	M
3.0	500	2525	2.26	0.01	-1.31	1.61	M	M
6.1	975.	3000.	1.41	-0.85	-0.75	2.18	M	M
12.6	1975.	4000.	-1.09	-2.50	-0.76	2.17		
18.6	2975.	5000.	-6.72	-5.63	-3.47	-0.54		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4508

DATE 04/15/77 TIME 14:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4517

DATE 04/17/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		9.32		0.0		M	M
1.0	150	2175	10.44	1.11	3.09	6.02	1.3	101.
2.0	300	2325	11.36	0.92	0.72	3.65	0.9	107.
3.1	475.	2500.	10.25	-1.10	-0.36	2.56	1.9	128.
3.3	500	2525	10.25	-0.01	-0.36	2.56	2.2	132.
6.3	975.	3000.	7.27	-2.89	-5.33	-2.40	0.6	132.
12.2	1975.	4000.	2.55	-3.86	-4.68	-1.75	0.8	198.
18.4	2975.	5000.	-2.83	-6.33	-1.72	1.21		
24.5	3975.	6000.	-0.58	-6.75	-0.58	2.35		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4517

DATE 04/17/77 TIME 08:15MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2101.	0.1	0.4	0.4	18m.
1.0	152.	2177.	-1.3	0.2	1.3	99.
1.5	229.	2254.	-1.3	-0.1	1.3	87.
2.0	305.	2330.	-0.8	0.3	0.9	109.
2.5	381.	2406.	-0.8	0.4	0.9	118.
3.0	457.	2482.	-1.4	1.0	1.7	125.
3.5	533.	2558.	-1.7	1.9	2.6	137.
4.0	610.	2635.	-1.5	1.3	2.0	131.
4.5	686.	2711.	-0.7	-0.1	0.7	86.
5.0	762.	2787.	-0.8	0.0	0.8	93.
5.5	838.	2863.	-0.7	0.4	0.8	116.
6.0	914.	2939.	-0.6	0.7	0.9	141.
6.5	1033.	3058.	-0.2	0.1	0.2	123.
7.0	1164.	3189.	-0.5	-0.5	0.7	47.
7.5	1240.	3265.	-1.5	-0.2	1.6	81.
8.0	1316.	3341.	-1.5	-0.8	1.7	61.
8.5	1393.	3418.	-0.4	-1.0	1.0	24.
9.0	1469.	3494.	-1.0	-0.2	1.0	80.
9.5	1545.	3570.	-0.8	0.3	0.9	109.
10.0	1621.	3646.	-0.6	0.3	0.7	120.
10.5	1697.	3722.	-0.4	0.2	0.5	118.
11.0	1776.	3801.	-0.8	-0.8	1.1	46.
11.5	1852.	3877.	-0.6	-1.3	1.4	25.
12.0	1928.	3953.	0.0	-0.8	0.8	357.
12.5	2032.	4057.	-0.0	-0.9	0.9	3.
13.0	2146.	4171.	-0.4	-1.2	1.2	19.
13.5	2223.	4248.	-0.6	-1.6	1.7	21.
14.0	2299.	4324.	1.9	-1.8	2.6	314.
14.5	2375.	4400.	1.6	-2.7	3.1	330.
15.0	2451.	4476.	1.7	-4.2	4.6	338.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/17/77 TIME 1010OMST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		18.25		0.6		2.6	270.
1.0	150	2175	17.54	-0.72	-0.53	2.40	1.6	272.
2.0	300	2325	16.82	-0.72	0.0	2.93	3.5	295.
3.1	475.	2500.	17.09	0.54	-1.41	1.51	4.4	313.
3.3	500	2525	17.10	0.25	-1.41	1.51	4.6	309.
6.3	975.	3000.	13.92	-3.17	-1.41	1.50	8.3	340.
12.5	1975.	4000.	8.21	-5.73	0.37	3.29	6.4	215.
18.4	2975.	5000.	0.16	-8.04	-0.19	2.74		
24.2	3975.	6000.	-7.10	-7.27	-10.00	-7.11		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4510

DATE 04/17/77 TIME 1010OMST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MTN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	2.6	0.0	2.6	270.
0.5	76.	2101.	1.1	0.2	1.2	260.
1.0	152.	2177.	1.5	-0.1	1.5	273.
1.5	229.	2254.	2.0	-2.0	3.5	304.
2.0	305.	2330.	3.2	-1.4	3.5	294.
2.5	381.	2406.	3.5	-3.8	4.6	327.
3.0	457.	2482.	3.1	-3.1	4.3	315.
3.5	533.	2558.	4.0	-2.8	4.8	305.
4.0	610.	2635.	3.7	-4.4	5.8	320.
4.5	686.	2711.	3.5	-5.0	6.5	327.
5.0	762.	2787.	5.9	-3.8	7.0	303.
5.5	838.	2863.	5.4	-1.8	5.8	288.
6.0	924.	2948.	4.9	-6.0	7.7	321.
6.5	1008.	3033.	1.3	-8.6	8.7	352.
7.0	1084.	3109.	1.5	-8.2	8.3	347.
7.5	1160.	3185.	4.0	-2.3	4.5	297.
8.0	1236.	3261.	3.8	-3.5	4.7	313.
8.5	1313.	3338.	2.2	0.2	2.2	264.
9.0	1389.	3414.	1.7	1.6	2.3	226.
9.5	1465.	3490.	0.9	0.2	0.9	257.
10.0	1541.	3566.	2.7	-3.7	4.6	216.
10.5	1617.	3643.	2.0	-2.9	3.5	215.
11.0	1724.	3749.	1.4	-1.6	2.2	221.
11.5	1826.	3851.	2.6	-5.8	6.4	204.
12.0	1902.	3927.	1.0	-6.5	6.6	189.
12.5	1978.	4003.	3.7	-5.1	6.4	216.
13.0	2054.	4079.	2.6	-5.3	5.9	206.
13.5	2130.	4155.	1.5	-4.3	4.8	199.
14.0	2207.	4232.	0.9	-4.2	4.3	192.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.55		0.0		2.6	330.
1.0	150	2175	1.41	-1.14	-1.50	1.42	3.0	288.
2.0	300	2325	0.84	-0.57	-0.75	2.17	3.4	315.
3.1	475.	2500.	-0.51	-1.15	-1.89	1.03	4.7	335.
3.3	500	2525	-0.50	-0.19	-1.89	1.03	5.2	337.
6.4	975.	3000.	-2.24	-1.74	-0.19	2.74	M	M
13.0	1975.	4000.	-3.41	-1.17	-0.19	2.74		
19.5	2975.	5000.	-6.14	-2.73	-0.39	2.54		
25.6	3975.	6000.	-12.15	-6.01	-2.93	-0.00		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	1.3	-2.2	2.6	330.
0.5	76.	2101.	1.5	0.2	1.5	264.
1.0	152.	2177.	2.9	-1.0	3.0	288.
1.5	229.	2254.	2.8	-1.3	3.0	295.
2.0	305.	2330.	2.3	-2.5	3.4	317.
2.5	381.	2406.	2.8	-2.4	3.7	311.
3.0	457.	2482.	1.9	-3.9	4.4	334.
3.5	533.	2558.	2.0	-5.5	5.9	340.
4.0	610.	2635.	1.8	-5.2	5.5	341.
4.5	686.	2711.	1.5	-4.9	5.2	343.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		2.55		0.0		M	M
1.0	150	2175	1.41	-1.14	-2.26	0.67	M	M
2.0	300	2325	0.07	-1.34	-3.40	-0.48	M	M
3.1	475.	2500.	-1.74	-1.81	-0.95	1.98	M	M
3.2	500	2525	-1.76	-0.02	-0.95	1.98	M	M
6.3	975.	3000.	-3.21	-1.45	0.0	2.93	M	M
8.5	*1303	3328	-3.99		3.62	6.55		
12.9	1975.	4000.	-3.70	-0.48	-3.82	-0.89		
19.2	2975.	5000.	-7.41	-3.71	-2.90	0.03		
24.3	3975.	6000.	-14.34	-6.94	-0.39	2.53		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4515

DATE 04/19/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4514

DATE 04/21/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.05		0.0		2.6	360.
1.0	150	2175	5.58	-0.47	3.51	6.44	1.2	112.
2.0	300	2325	7.65	2.07	0.0	2.93	1.2	157.
3.1	475.	2500.	7.27	-0.36	-1.64	1.09	0.6	125.
3.3	500	2525	7.27	-0.02	-1.84	1.09	0.8	119.
6.3	975.	3000.	4.45	-2.82	0.19	3.11	2.4	132.
12.7	1975.	4000.	-3.02	-6.70	-2.48	0.45	5.4	36.
19.1	2975.	5000.	-7.61	-5.36	-2.32	0.61		
25.4	3975.	6000.	-15.34	-7.73	-3.35	-0.42		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4514

DATE 04/21/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-2.6	2.6	360.
0.5	76.	2101.	-1.1	0.3	1.1	103.
1.0	152.	2177.	-1.1	0.4	1.2	112.
1.5	229.	2254.	-0.6	0.7	0.9	137.
2.0	305.	2330.	-0.5	1.1	1.2	156.
2.5	381.	2406.	-0.1	1.3	1.3	176.
3.0	457.	2482.	-0.3	0.2	0.4	129.
3.5	533.	2558.	-1.1	0.4	1.2	111.
4.0	610.	2635.	-1.5	1.0	1.9	124.
4.5	686.	2711.	-2.2	1.8	2.8	130.
5.0	762.	2787.	-1.8	1.8	2.6	136.
5.5	838.	2863.	-1.8	2.7	3.3	146.
6.0	926.	2951.	-1.3	2.2	2.6	149.
6.5	1002.	3027.	-2.0	1.2	2.3	122.
7.0	1078.	3103.	-2.8	0.5	2.8	100.
7.5	1154.	3179.	-3.5	0.3	3.5	95.
8.0	1233.	3258.	-3.4	-0.3	3.4	84.
8.5	1309.	3334.	-2.6	-1.4	3.0	63.
9.0	1385.	3410.	-1.7	-1.3	2.2	52.
9.5	1461.	3486.	-0.8	-1.4	1.6	28.
10.0	1540.	3565.	-0.8	-1.5	1.7	20.
10.5	1624.	3649.	-1.1	-1.8	2.1	32.
11.0	1700.	3725.	-1.7	-1.9	2.5	41.
11.5	1776.	3801.	-1.4	-1.4	2.0	45.
12.0	1853.	3878.	-2.3	-2.0	3.1	49.
12.5	1932.	3957.	-3.4	-3.3	4.8	46.
13.0	2021.	4046.	-2.6	-5.6	6.2	25.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3380

DATE 04/21/77 TIME 1400MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		17.54		0.0		2.6	310.
0.9	150	2175	15.03	-2.51	-3.39	-0.47	4.0	319.
1.7	300	2325	13.48	-1.55	-2.70	0.23	3.7	325.
2.8	475.	2500.	12.00	-1.46	-3.26	-0.33	3.2	334.
3.0	500	2525	12.01	-0.01	-3.26	-0.33	3.2	339.
6.0	975.	3000.	9.32	-2.50	-0.18	2.75	6.1	346.
11.9	1975.	4000.	3.22	-6.29	-4.49	-1.57	1.7	314.
15.9	2975.	5000.	-7.40	-10.62	-7.33	-4.40		
20.3	3975.	6000.	-14.04	-6.64	0.98	3.91		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3380

DATE 04/21/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	2.0	-1.7	2.6	310.
0.5	76.	2101.	2.0	-2.5	3.1	322.
1.0	178.	2203.	2.9	-3.2	4.3	318.
1.5	262.	2287.	1.8	-2.6	3.2	326.
2.0	355.	2380.	2.6	-3.5	4.4	324.
2.5	431.	2456.	1.9	-2.7	3.3	325.
3.0	507.	2532.	1.1	-3.0	3.1	341.
3.5	592.	2617.	1.6	-2.5	3.1	324.
4.0	669.	2694.	0.7	-3.3	3.3	349.
4.5	745.	2770.	1.0	-3.4	3.6	344.
5.0	822.	2847.	1.6	-4.3	4.6	340.
5.5	898.	2923.	0.8	-4.3	4.3	349.
6.0	974.	2999.	1.5	-5.9	6.1	346.
6.5	1050.	3075.	1.9	-7.5	7.7	346.
7.0	1126.	3151.	2.0	-7.3	7.5	345.
7.5	1203.	3228.	1.1	-6.5	6.6	351.
8.0	1279.	3304.	-0.8	-2.2	2.3	20.
8.5	1355.	3380.	1.0	-1.3	1.7	323.
9.0	1465.	3490.	1.3	-2.0	2.4	327.
9.5	1589.	3614.	2.9	-3.9	4.9	323.
10.0	1665.	3690.	1.2	-4.2	4.3	344.
10.5	1741.	3766.	1.7	-5.8	6.1	344.
11.0	1818.	3843.	1.5	-4.7	4.9	343.
11.5	1907.	3932.	0.4	-2.4	2.4	351.
12.0	1990.	4015.	1.2	-0.9	1.5	306.
12.5	2107.	4132.	2.3	-1.4	2.7	301.
13.0	2226.	4251.	1.2	-0.1	1.2	272.
13.5	2303.	4328.	1.0	-3.2	3.3	343.
14.0	2423.	4448.	1.1	-1.0	1.5	313.
14.5	2561.	4586.	4.2	1.1	4.3	256.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3384

DATE 04/23/77 TIME 07:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		6.80		0.0		1.0	360.
1.0	150	2175	8.21	1.40	3.67	6.60	0.4	225.
2.0	300	2325	10.43	2.22	3.28	6.21	1.3	127.
3.1	475.	2500.	12.37	1.84	1.08	4.01	1.7	96.
3.3	500	2525	12.36	0.09	1.08	4.01	1.8	94.
6.4	975.	3000.	12.28	-0.08	-2.71	0.22	3.9	25.
12.9	1975.	4000.	5.39	-6.89	-0.74	2.19	3.1	44.
19.0	2975.	5000.	-2.53	-7.92	-3.42	-0.49		
24.6	3975.	6000.	-10.66	-8.13	-3.50	-0.57		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3384

DATE 04/23/77 TIME 07:50MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	-1.0	1.0	360.
0.5	76.	2101.	-0.2	0.5	0.5	161.
1.0	152.	2177.	0.3	0.3	0.4	227.
1.5	229.	2254.	0.4	0.4	0.5	226.
2.0	305.	2330.	-1.2	0.7	1.3	120.
2.5	381.	2406.	-1.6	0.2	1.6	99.
3.0	457.	2482.	-1.6	0.2	1.6	96.
3.5	533.	2558.	-1.9	0.0	1.9	91.
4.0	610.	2635.	-1.5	-1.1	1.9	53.
4.5	686.	2711.	-1.3	-1.9	2.3	35.
5.0	762.	2787.	-2.6	-2.5	3.6	46.
5.5	838.	2863.	-2.7	-2.7	3.8	44.
6.0	914.	2939.	-1.7	-3.4	3.8	27.
6.5	991.	3016.	-1.6	-3.6	3.9	24.
7.0	1070.	3095.	-2.5	-3.2	4.1	37.
7.5	1148.	3173.	-3.5	-2.5	4.3	54.
8.0	1224.	3249.	-4.3	-1.4	4.5	71.
8.5	1301.	3326.	-2.4	-1.3	2.7	61.
9.0	1377.	3402.	-2.7	-1.7	3.2	57.
9.5	1453.	3478.	-2.3	-2.4	3.3	45.
10.0	1529.	3554.	-1.8	-2.5	3.1	35.
10.5	1605.	3630.	-1.7	-3.5	3.9	27.
11.0	1682.	3707.	-1.7	-3.9	4.3	24.
11.5	1758.	3783.	-1.8	-3.7	4.1	25.
12.0	1836.	3861.	-2.1	-3.3	3.9	32.
12.5	1912.	3937.	-2.1	-2.7	3.5	38.
13.0	1986.	4013.	-2.2	-2.2	3.1	45.
13.5	2064.	4090.	-2.4	-2.0	3.1	50.
14.0	2150.	4175.	-2.4	-2.2	3.2	48.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3378

DATE 04/23/77 TIME 13:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		21.52		0.0		2.6	90.
0.9	150	2175	19.33	-2.20	-1.58	1.35	4.5	86.
1.9	300	2325	17.83	-1.49	-1.76	1.17	4.3	86.
3.0	475.	2500.	16.64	-0.73	-1.77	1.16	0.5	24.
3.2	500	2525	16.68	-0.43	-1.77	1.16	1.0	132.
6.3	975.	3000.	15.92	-0.76	-0.18	2.75	11.0	15.
11.2	1975.	4000.	6.52	-9.39	-1.48	1.45	6.9	328.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3378

DATE 04/23/77 TIME 13:45MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-2.6	-0.0	2.6	90.
0.5	76.	2101.	-4.4	-0.0	4.4	90.
1.0	169.	2194.	-4.5	-0.4	4.5	85.
1.5	246.	2271.	-2.9	-1.1	3.1	69.
2.0	322.	2347.	-4.8	0.2	4.8	93.
2.5	398.	2423.	-5.3	-0.3	5.3	87.
3.0	474.	2499.	-0.2	-0.5	0.5	21.
3.5	550.	2575.	0.4	-2.0	2.1	350.
4.0	627.	2652.	0.2	-4.0	4.0	357.
4.5	703.	2728.	-0.6	-6.5	6.6	5.
5.0	779.	2804.	-1.2	-7.7	7.8	9.
5.5	855.	2880.	-3.0	-10.5	10.9	16.
6.0	931.	2956.	-5.5	-12.4	13.6	24.
6.5	1008.	3033.	-1.4	-9.0	9.1	9.
7.0	1084.	3109.	-10.3	-2.7	10.7	75.
7.5	1160.	3185.	8.0	-12.4	14.8	327.
8.0	1253.	3278.	0.5	-4.0	4.0	353.
8.5	1358.	3383.	2.7	-5.1	5.8	332.
9.0	1466.	3491.	6.0	-4.2	7.4	305.
9.5	1581.	3606.	4.5	-3.9	5.9	311.
10.0	1727.	3752.	5.0	-0.8	5.1	279.
10.5	1861.	3886.	5.4	-6.0	8.0	318.
11.0	1950.	3975.	3.9	-5.5	6.7	325.
11.5	2026.	4051.	3.3	-6.5	7.3	333.
12.0	2103.	4128.	5.0	-3.6	6.2	306.
12.5	2179.	4204.	6.2	-3.9	7.3	302.
13.0	2255.	4280.	5.1	-2.5	5.7	297.
13.5	2331.	4356.	2.4	-3.1	3.9	321.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3370

DATE 04/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		7.65		0.0		1.0	90.
1.0	150	2175	11.90	4.25	6.53	9.45	6.0	95.
2.0	300	2325	13.73	1.83	2.33	5.26	5.8	94.
3.1	475.	2500.	14.38	0.37	1.25	4.18	1.3	168.
3.3	500	2525	14.34	0.26	1.25	4.18	1.6	177.
6.1	975.	3000.	10.53	-3.78	-4.00	-1.07	1.5	169.
12.0	1975.	4000.	5.39	-5.18	-0.37	2.56	1.4	44.
17.5	2975.	5000.	-0.80	-6.19	1.14	4.07		
22.8	3975.	6000.	-10.07	-9.27	-4.67	-1.74		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3370

DATE 04/25/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	-1.0	-0.0	1.0	90.
0.5	76.	2101.	-1.9	1.1	2.2	119.
1.0	152.	2177.	-6.2	0.5	6.2	95.
1.5	229.	2254.	-5.5	0.1	5.5	91.
2.0	305.	2330.	-5.8	0.4	5.8	94.
2.5	381.	2406.	-2.1	0.8	2.3	110.
3.0	457.	2482.	-0.4	1.1	1.1	161.
3.5	533.	2558.	0.3	2.0	2.0	190.
4.0	610.	2635.	-0.2	1.6	1.6	173.
4.5	686.	2711.	-1.3	2.0	2.4	147.
5.0	762.	2787.	-0.3	1.7	1.8	169.
5.5	838.	2863.	-0.1	0.9	0.9	171.
6.0	960.	2985.	-0.3	1.4	1.5	170.
6.5	1077.	3102.	-0.4	1.3	1.3	163.
7.0	1166.	3191.	-1.0	0.8	1.3	130.
7.5	1242.	3267.	-1.2	1.0	1.6	131.
8.0	1318.	3343.	-1.8	0.3	1.9	100.
8.5	1418.	3443.	-1.8	0.2	1.8	97.
9.0	1516.	3541.	-1.6	-0.0	1.6	89.
9.5	1592.	3617.	-2.7	-0.4	2.7	82.
10.0	1672.	3697.	-1.2	-2.4	2.7	26.
10.5	1748.	3773.	-0.8	-2.6	2.7	18.
11.0	1824.	3849.	-1.5	-2.7	3.1	29.
11.5	1901.	3926.	-1.0	-1.7	2.0	30.
12.0	1977.	4002.	-1.0	-1.0	1.4	44.
12.5	2053.	4078.	-0.9	-0.9	1.3	45.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3379

DATE 04/27/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		10.71		0.0		M	M
1.0	? 150	2175	9.42	-1.29	-1.64	1.29	4.1	67.
2.0	? 300	2325	8.96	-0.46	-1.46	1.46	1.5	80.
3.1	475.	?2500.	8.21	-0.74	-1.10	1.83	3.4	111.
3.3	? 500	2525	8.03	-0.18	-1.10	1.83	3.3	123.
8.4	975.	?3000.	6.52	-1.51	-0.74	2.19	2.4	239.
12.6	1975.	4000.	0.07	-5.98	-3.21	-0.29	13.0	233.
18.6	2975.	5000.	-7.90	-8.45	1.16	4.09		
25.2	3975.	6000.	-12.05	-4.15	-1.95	0.97		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3379

DATE 04/27/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
			THE WIND DATA ARE MISSING			
0.5	76.	2101.	-0.8	0.6	1.0	126.
1.0	152.	2177.	-3.8	-1.8	4.2	65.
1.5	229.	2254.	-2.8	-1.1	3.0	68.
2.0	305.	2330.	-1.3	-0.2	1.4	81.
2.5	381.	2406.	-1.1	0.8	1.3	125.
3.0	457.	2482.	-3.4	0.8	3.5	103.
3.5	533.	2558.	-2.1	2.3	3.2	138.
4.0	610.	2635.	-2.8	1.3	3.1	246.
4.5	686.	2711.	-2.5	1.0	2.7	248.
5.0	762.	2787.	-2.5	1.0	2.7	249.
5.5	838.	2863.	-2.5	1.1	2.8	246.
6.0	914.	2939.	-2.4	1.0	2.6	248.
6.5	991.	3016.	-2.0	1.3	2.4	236.
7.0	1067.	3092.	-1.7	2.1	2.7	220.
7.5	1143.	3168.	-1.8	2.4	3.0	218.
8.0	1219.	3244.	-2.0	3.6	4.6	219.
8.5	1295.	3320.	-3.7	4.8	6.1	217.
9.0	1372.	3397.	-5.0	4.9	7.0	226.
9.5	1448.	3473.	-5.1	6.7	8.4	217.
10.0	1524.	3549.	-5.1	5.9	8.6	226.
10.5	1600.	3625.	-5.1	5.0	8.5	226.
11.0	1681.	3706.	-7.4	6.2	9.7	230.
11.5	1774.	3799.	-8.4	7.2	11.1	229.
12.0	1869.	3894.	-9.1	8.0	12.1	229.
12.5	1952.	3977.	-10.5	8.1	13.3	232.
13.0	2029.	4054.	-10.1	7.2	12.4	235.
13.5	2125.	4150.	-11.2	7.6	13.5	236.
14.0	2216.	4241.	-11.9	6.5	13.5	242.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3383

DATE 04/27/77 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		16.64		0.0		M	M
1.0	150	2175	16.46	-0.18	-0.89	2.04	M	M
2.0	300	2325	16.01	-0.45	-0.53	2.40	M	M
3.1	475.	2500.	14.75	-1.25	-2.85	0.07	M	M
3.3	500	2525	14.66	-0.10	-2.15	0.78	M	M
6.3	975.	3000.	10.47	-4.19	-4.00	-1.08	M	M

COL CB TRACT ELEV 2025 METERS SOUNDING ID 3383

DATE 04/27/77 TIME 13:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG

THE WIND DATA ARE MISSING

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4614

DATE 04/29/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		7.65		0.0		0.0	0.
1.0	150	2175	7.46	-0.19	1.65	4.58	3.0	88.
2.0	300	2325	8.21	0.75	0.0	2.93	1.9	164.
3.1	475.	2500.	8.21	0.0	0.0	2.93	4.3	220.
3.3	500	2525	8.21	0.0	0.0	2.93	4.4	223.
6.4	975.	3000.	5.30	-2.90	-2.23	0.70	1.0	231.
12.9	1975.	4000.	-1.38	-6.68	-2.66	0.27	4.5	289.
19.4	2975.	5000.	-8.10	-6.72	-3.48	-0.56		
25.9	3975.	6000.	-14.24	-6.14	-2.16	0.77		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4614

DATE 04/29/77 TIME 08:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED M/S	WND DIR DEG
0.0	0.	2025.	0.0	0.0	0.0	0.
0.5	76.	2101.	-0.9	1.2	1.5	144.
1.0	152.	2177.	-3.0	-0.2	3.0	87.
1.5	229.	2254.	-2.8	0.5	2.8	101.
2.0	305.	2330.	-0.4	1.8	1.9	168.
2.5	381.	2406.	1.7	3.2	3.6	207.
3.0	457.	2482.	2.6	3.4	4.3	218.
3.5	533.	2558.	3.2	3.1	4.5	226.
4.0	610.	2635.	2.4	2.9	3.7	220.
4.5	686.	2711.	2.3	2.1	3.1	228.
5.0	762.	2787.	1.8	1.7	2.5	227.
5.5	838.	2863.	1.5	1.5	2.1	226.
6.0	914.	2939.	1.1	0.8	1.4	234.
6.5	991.	3016.	0.7	0.6	0.9	230.
7.0	1067.	3092.	1.0	0.5	1.1	247.
7.5	1143.	3168.	1.5	0.6	1.6	248.
8.0	1219.	3244.	1.3	0.5	1.4	249.
8.5	1298.	3323.	2.0	0.5	2.0	256.
9.0	1374.	3399.	2.2	0.5	2.2	256.
9.5	1450.	3475.	2.8	0.3	2.9	265.
10.0	1526.	3551.	3.5	-0.3	3.5	274.
10.5	1602.	3627.	3.5	-0.7	3.6	282.
11.0	1679.	3704.	3.6	-1.2	3.8	289.
11.5	1755.	3780.	3.8	-1.7	4.2	294.
12.0	1831.	3856.	3.3	-1.8	3.7	300.
12.5	1907.	3932.	3.9	-1.8	4.3	295.
13.0	1983.	4008.	4.3	-1.4	4.5	289.

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4613

DATE 04/29/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

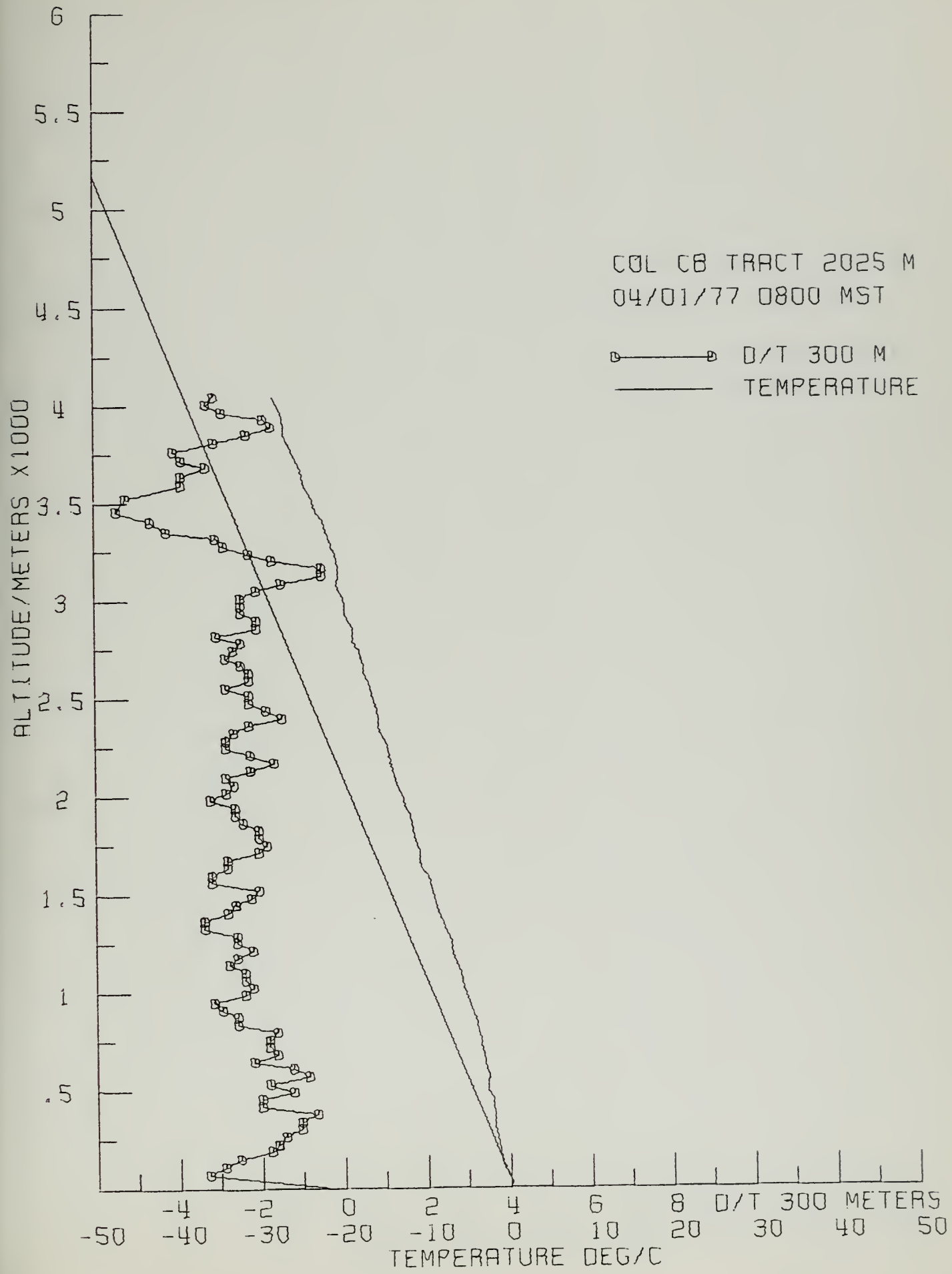
TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	TEMP DEG C	D/T STD	D/T 300M	D/T LAPSE	WS M/S	WD DEG
	SFC		12.83		0.0		M	M
1.0	150	2175	12.00	-0.83	-0.90	2.02	M	M
2.0	300	2325	11.18	-0.82	-1.63	1.30	M	M
3.1	475.	2500.	10.07	-1.11	-2.19	0.74	M	M
3.3	500	2525	9.63	-0.43	-1.64	1.29	M	M
6.4	975.	3000.	6.81	-2.82	-1.48	1.45	M	M
12.9	1975.	4000.	0.36	-6.45	-1.89	1.04		
19.1	2975.	5000.	-7.90	-8.26	-1.35	1.57		
25.3	3975.	6000.	-15.14	-7.24	-2.56	0.37		

COL CB TRACT ELEV 2025 METERS SOUNDING ID 4613

DATE 04/29/77 TIME 14:00MST ASCENT RATE 500 FPM DATA INTERVAL 15 SEC.

TIME MIN	HEIGHT M (AGL)	HEIGHT M (MSL)	U-COMP M/S	V-COMP M/S	WND SPEED AND DIR M/S DEG

THE WIND DATA ARE MISSING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04/01/77 0800 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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5.5
5
4.5
4
3.5
3
2.5
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1.5
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2
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6
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D/T 300 METERS
-50
-40
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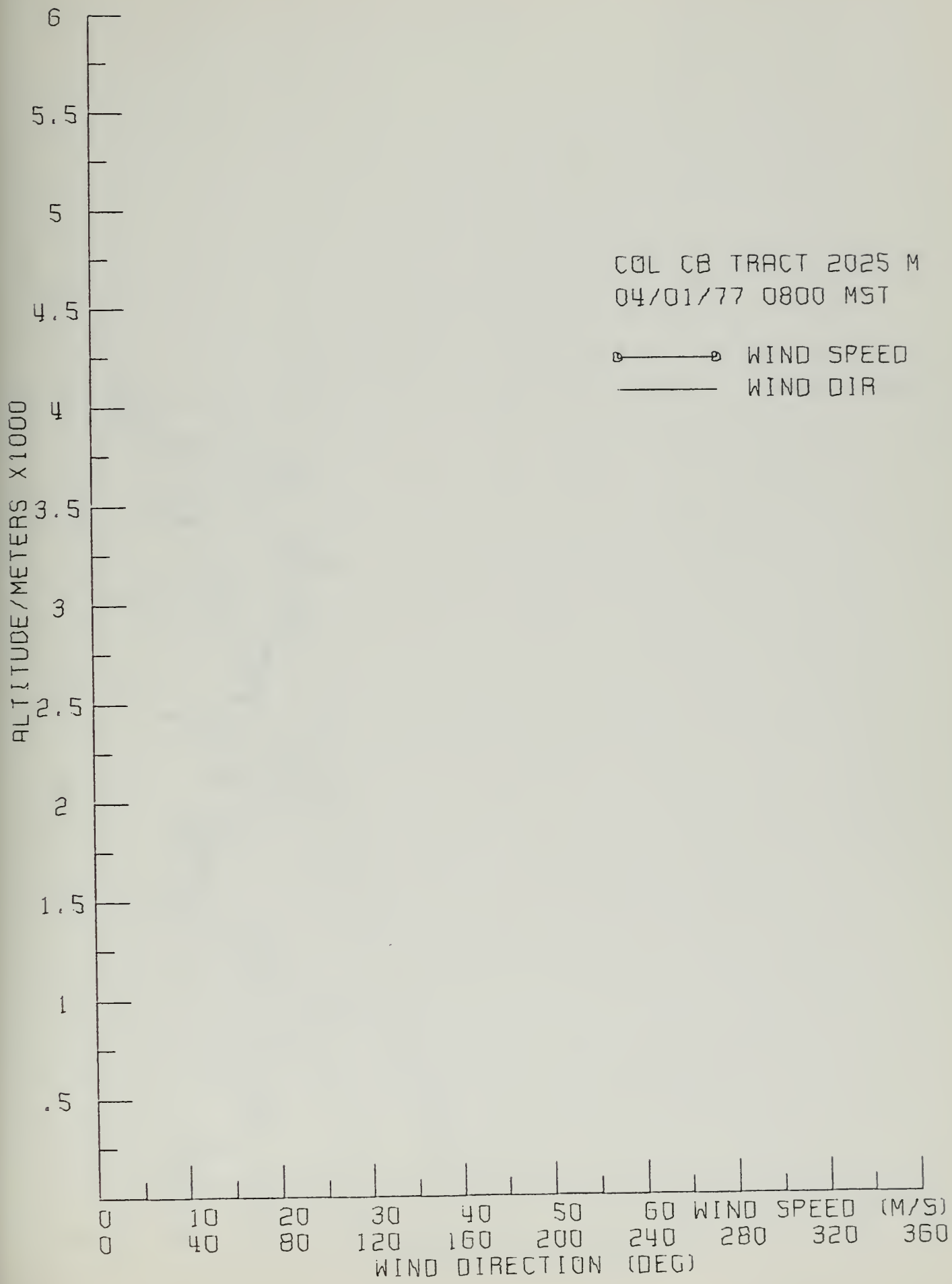
50
TEMPERATURE DEG/C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04/01/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
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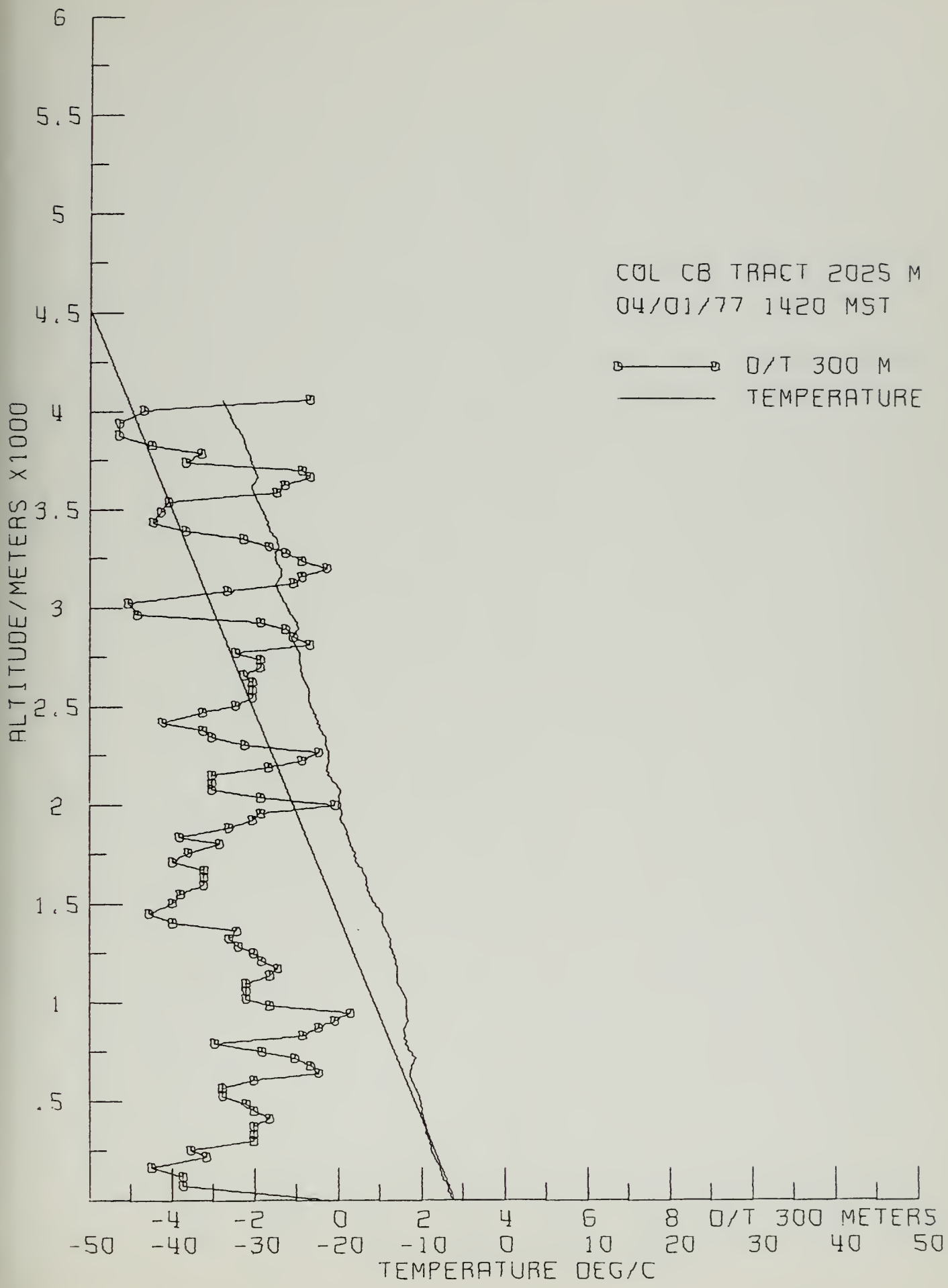
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/01/77 1420 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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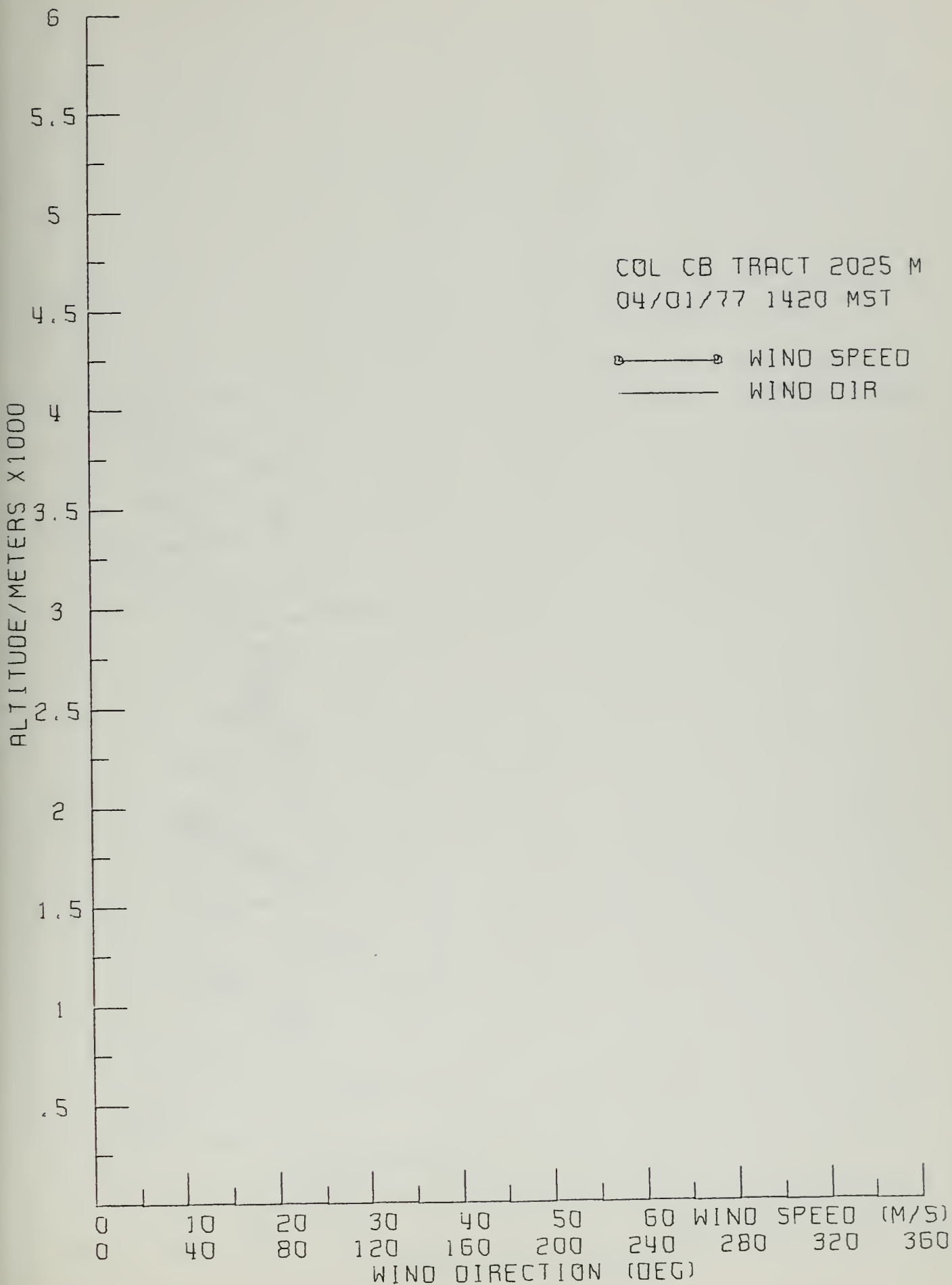
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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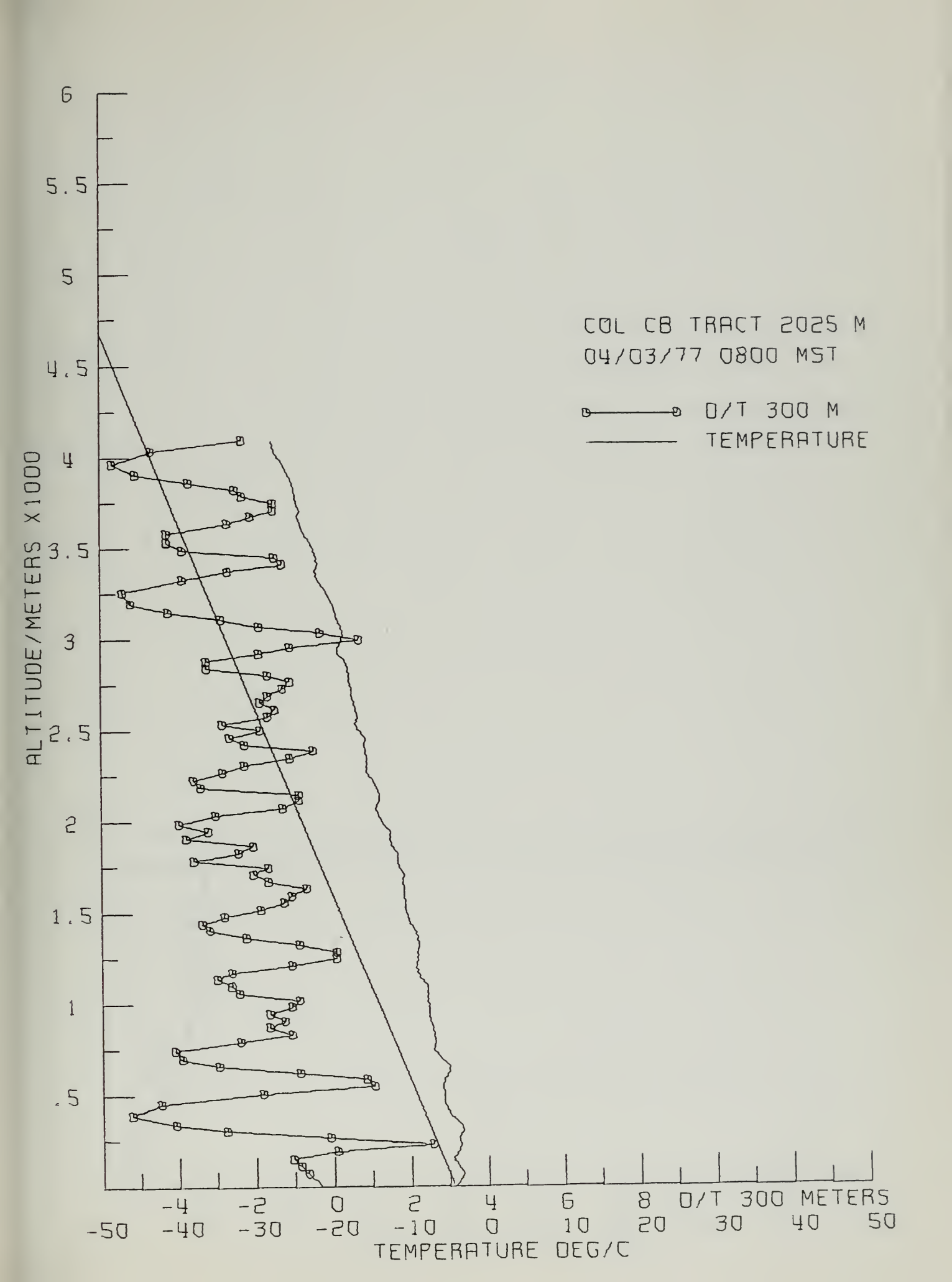
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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ALTITUDE/METERS X1000
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O/T 300 METERS
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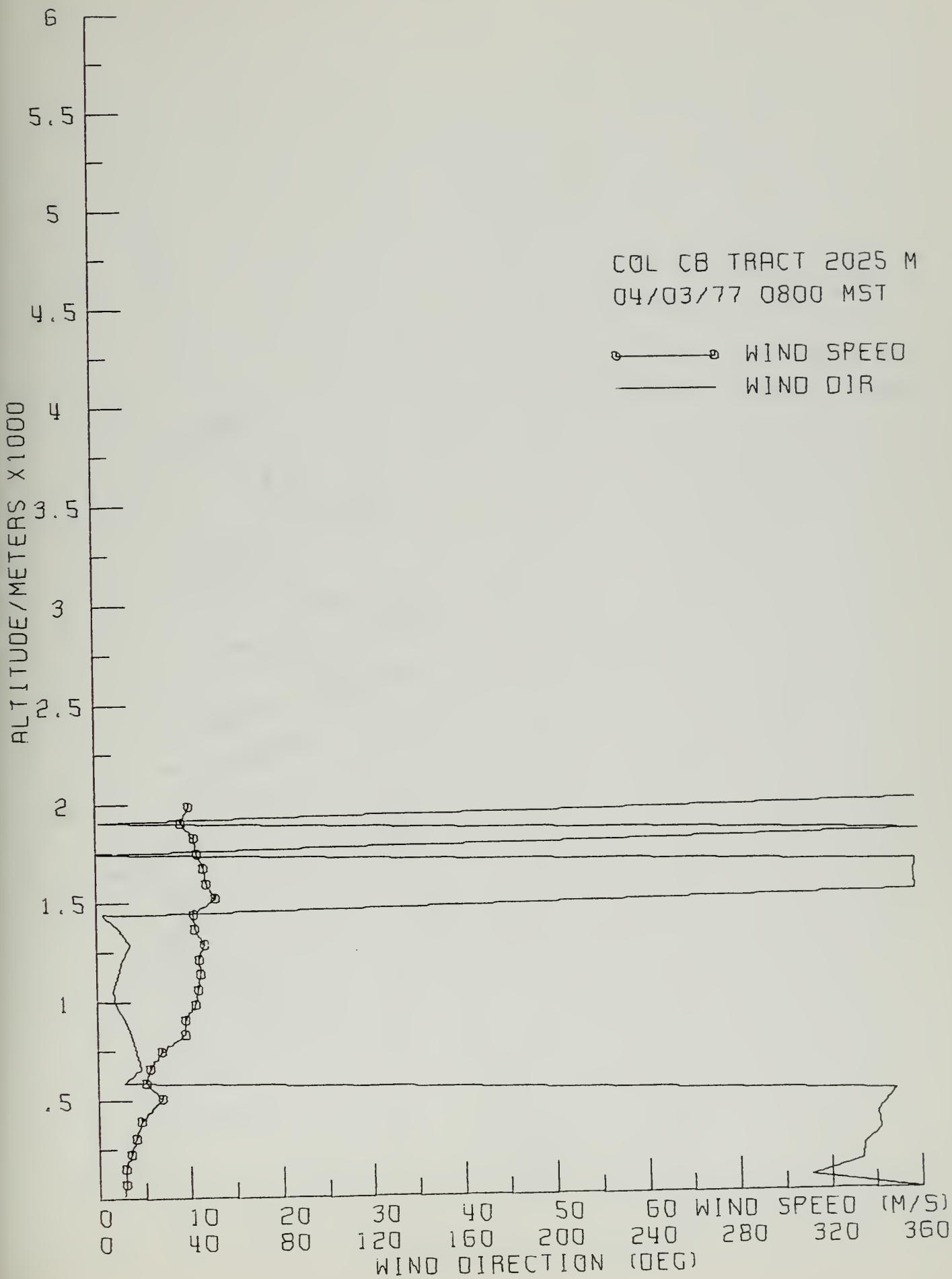
TEMPERATURE DEG/C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04/03/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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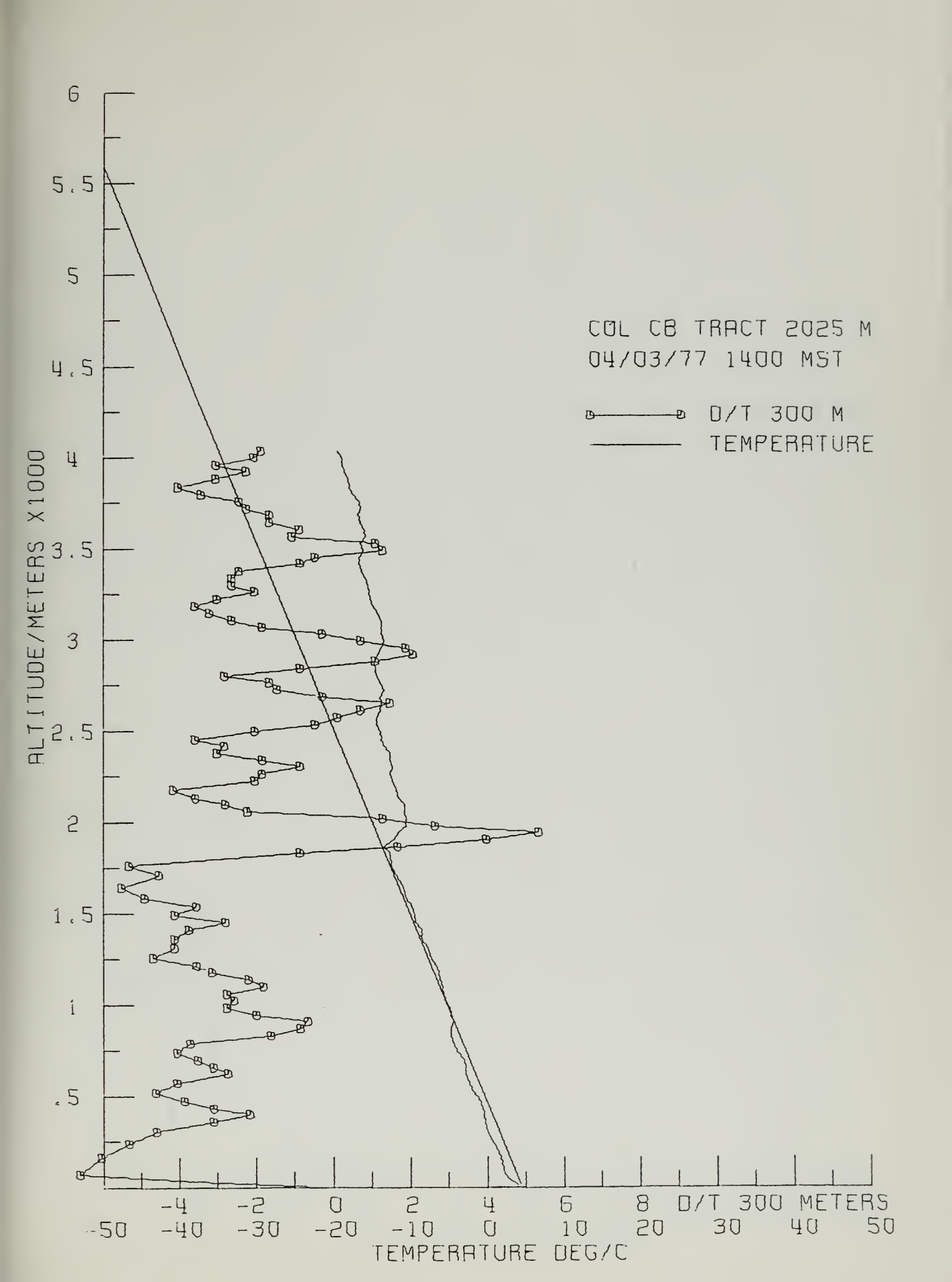
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/03/77 1400 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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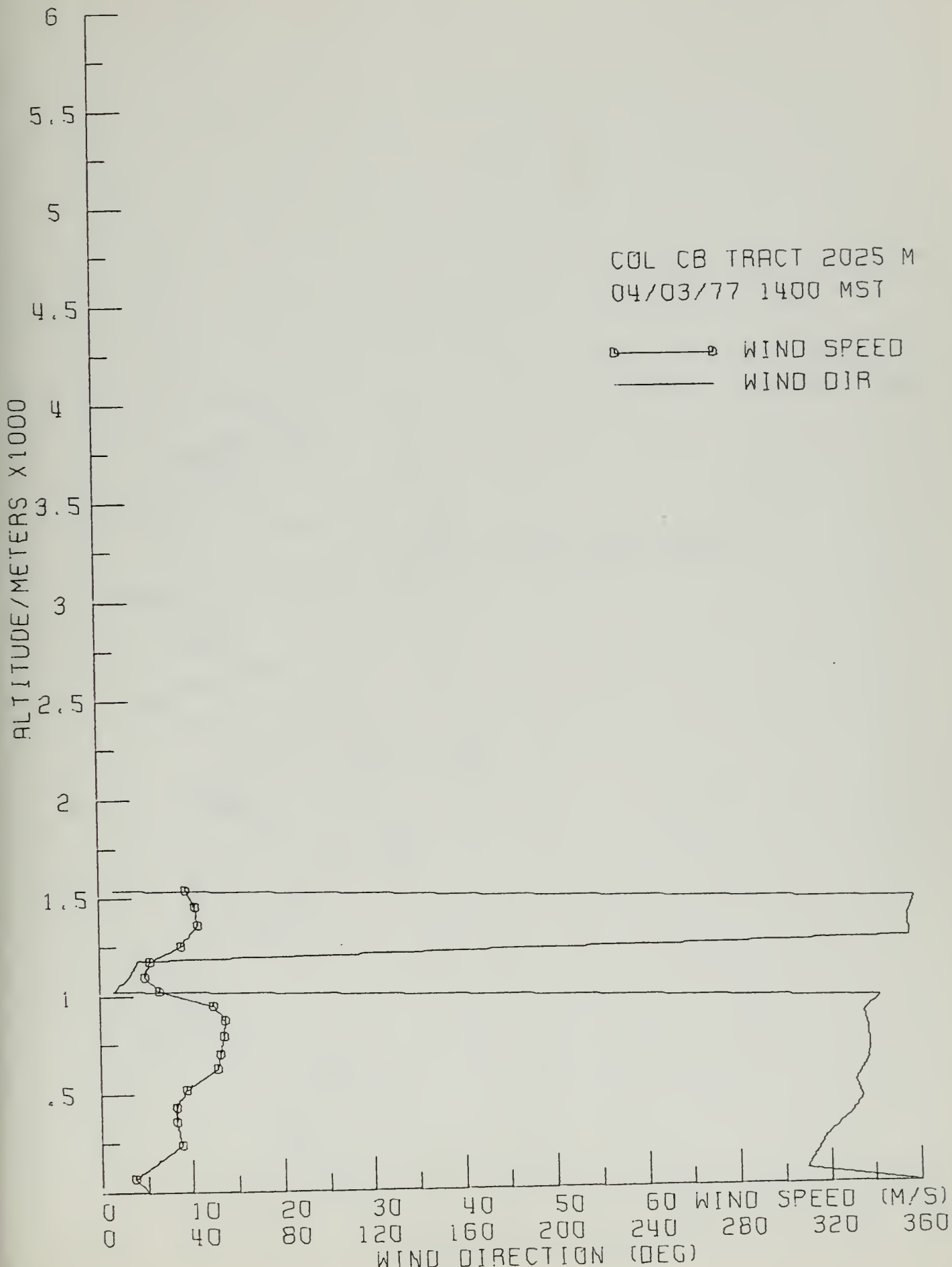
TEMPERATURE DEG/C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04/03/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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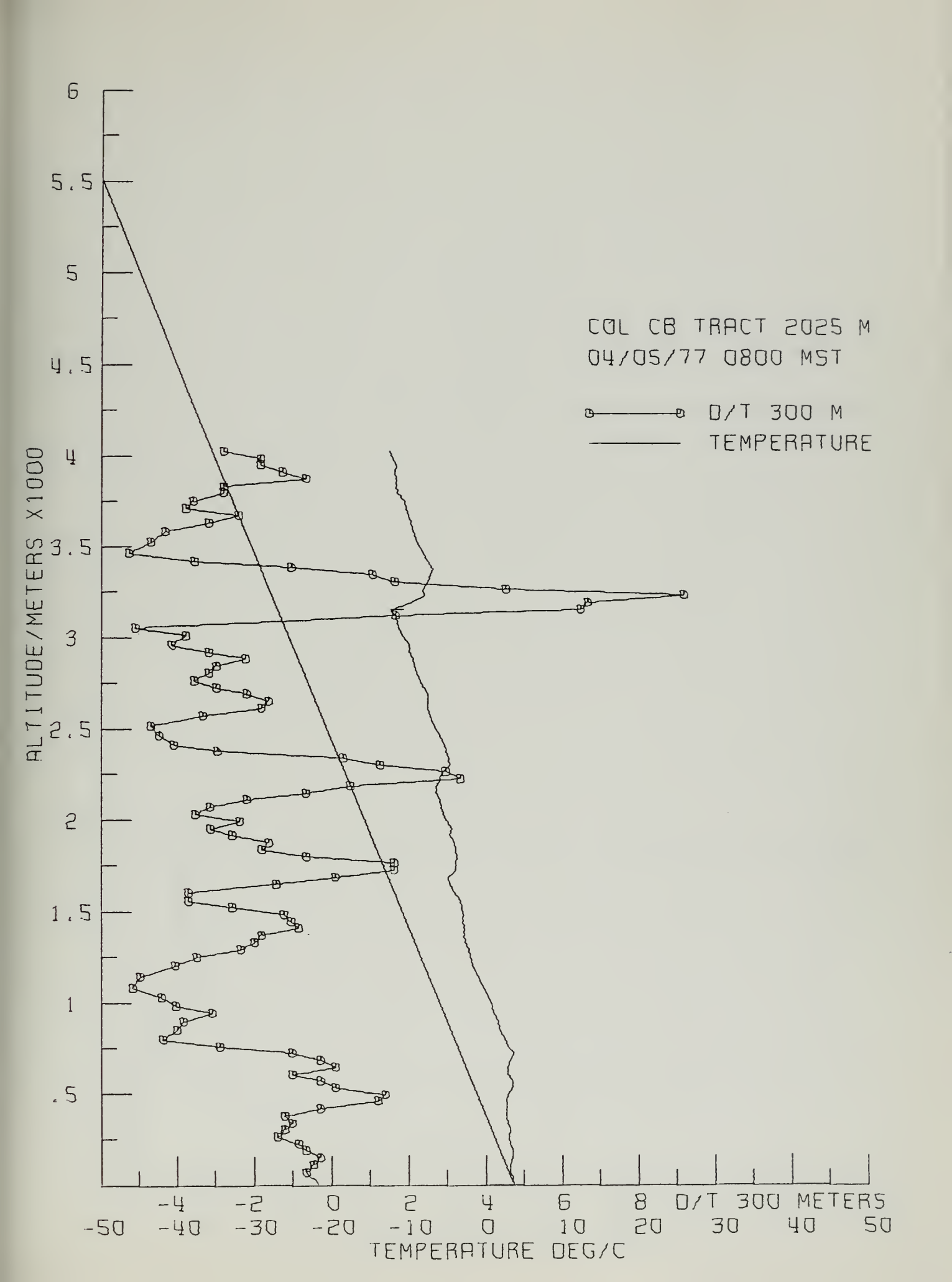
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/05/77 0800 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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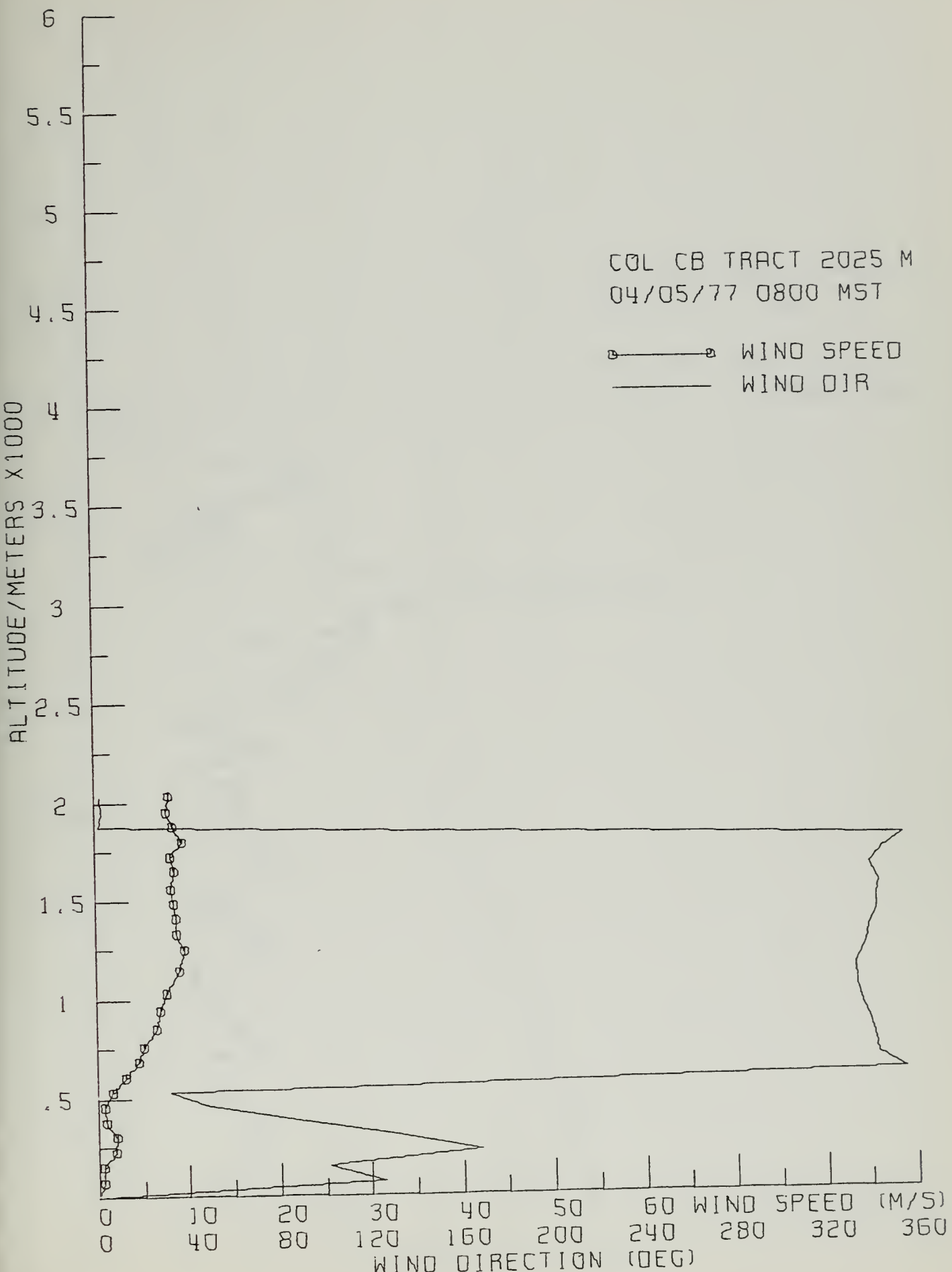
TEMPERATURE DEG/C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04/05/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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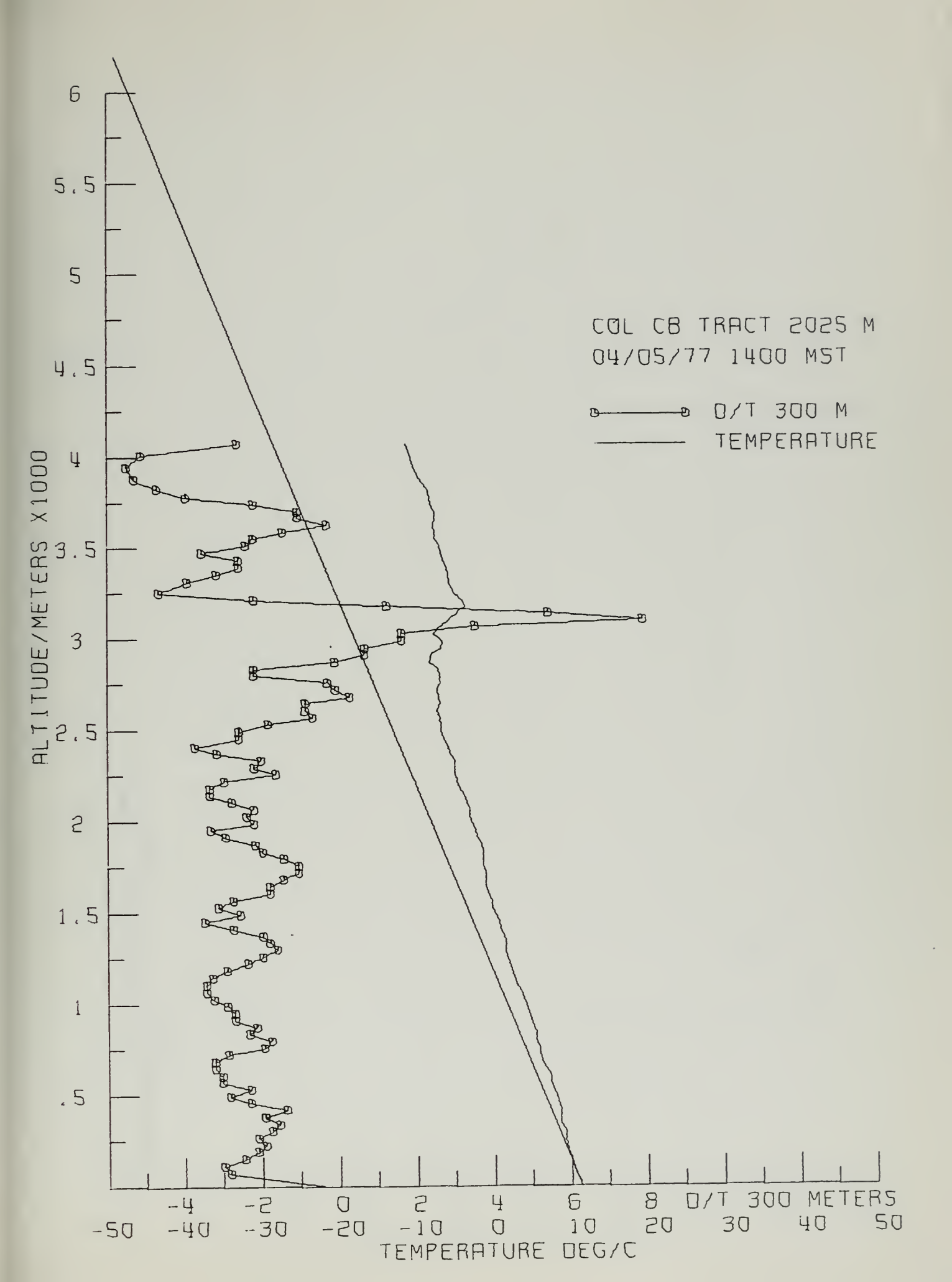
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/05/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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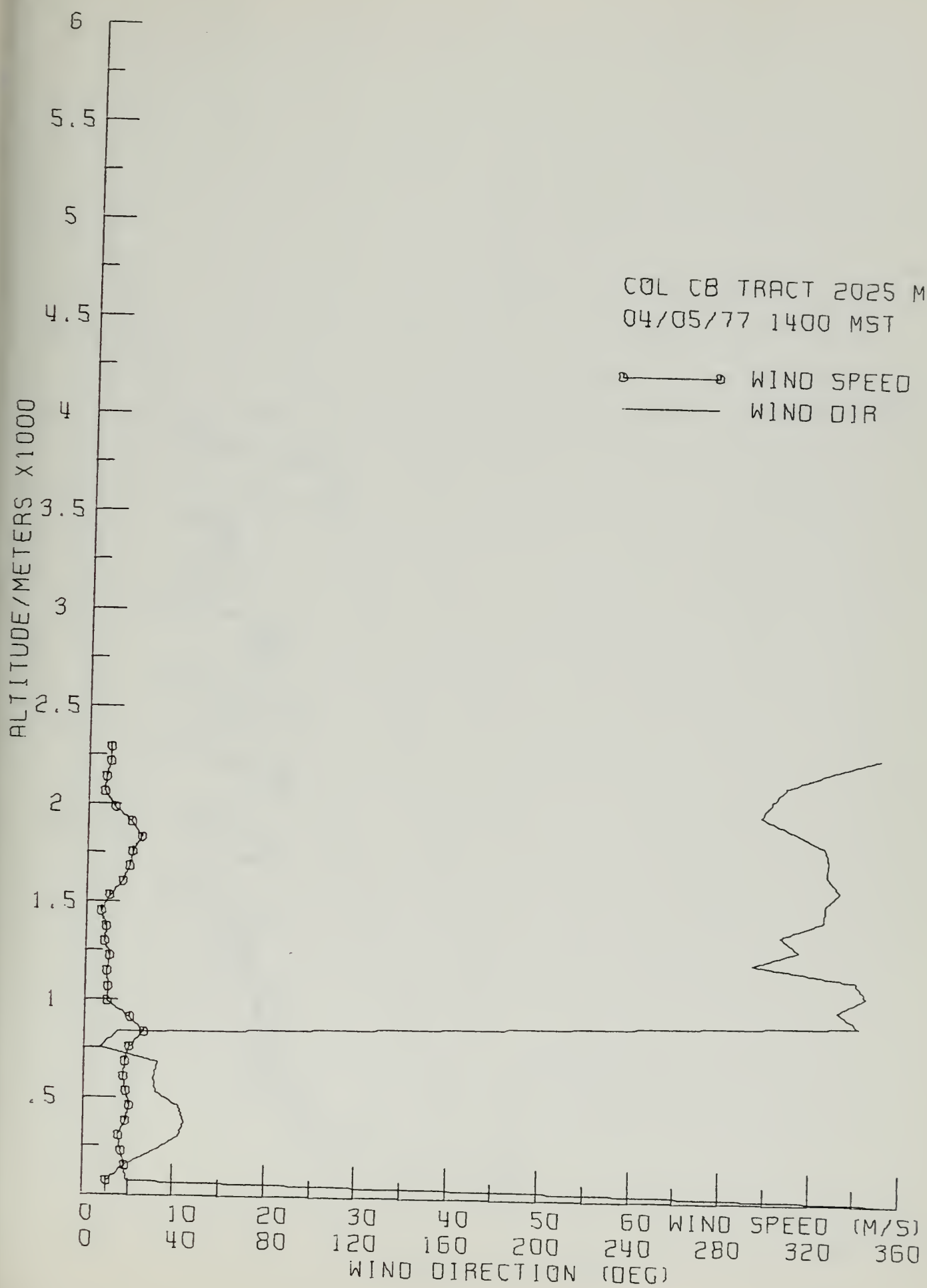
TEMPERATURE DEG/C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WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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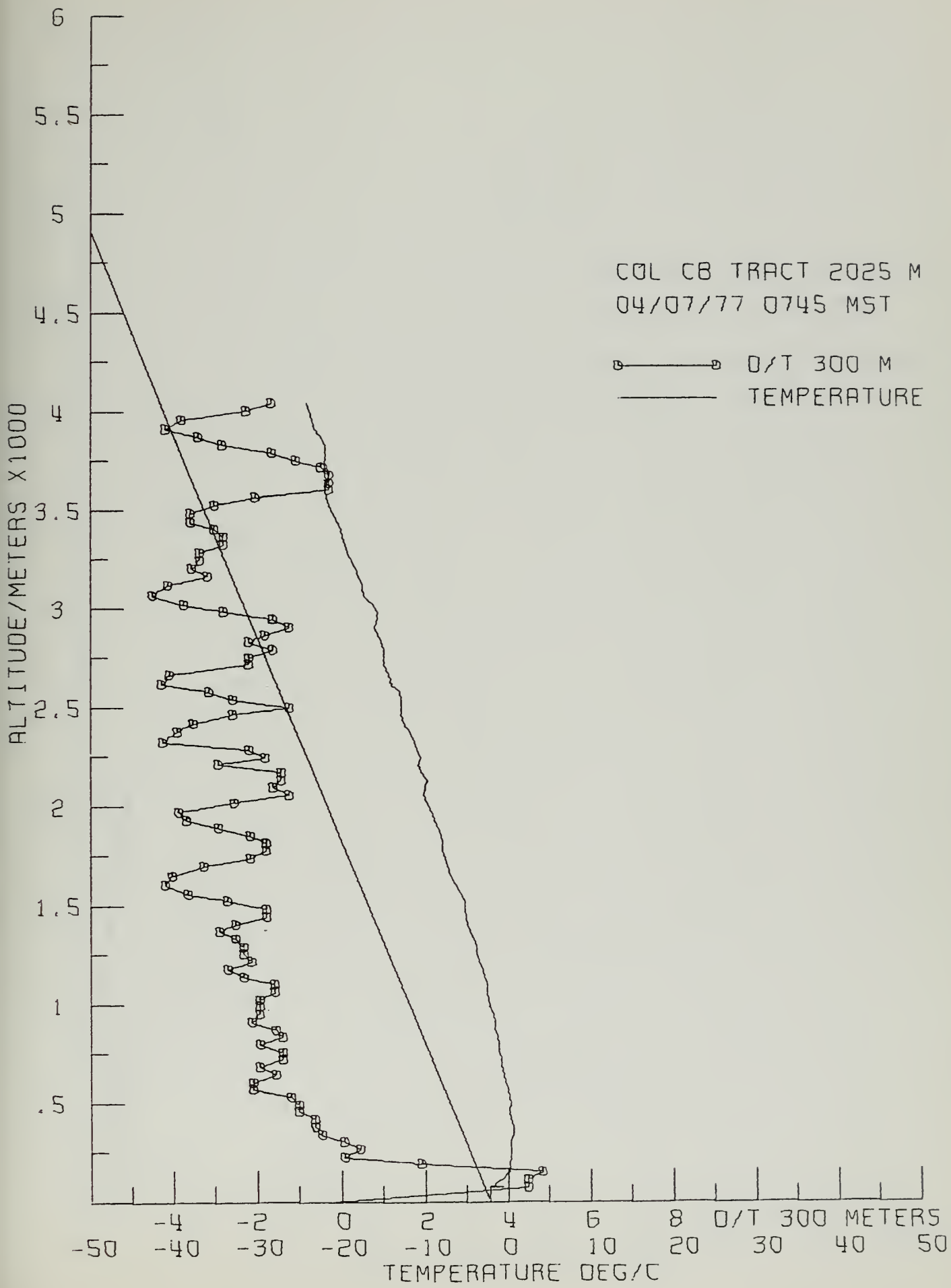
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/07/77 0745 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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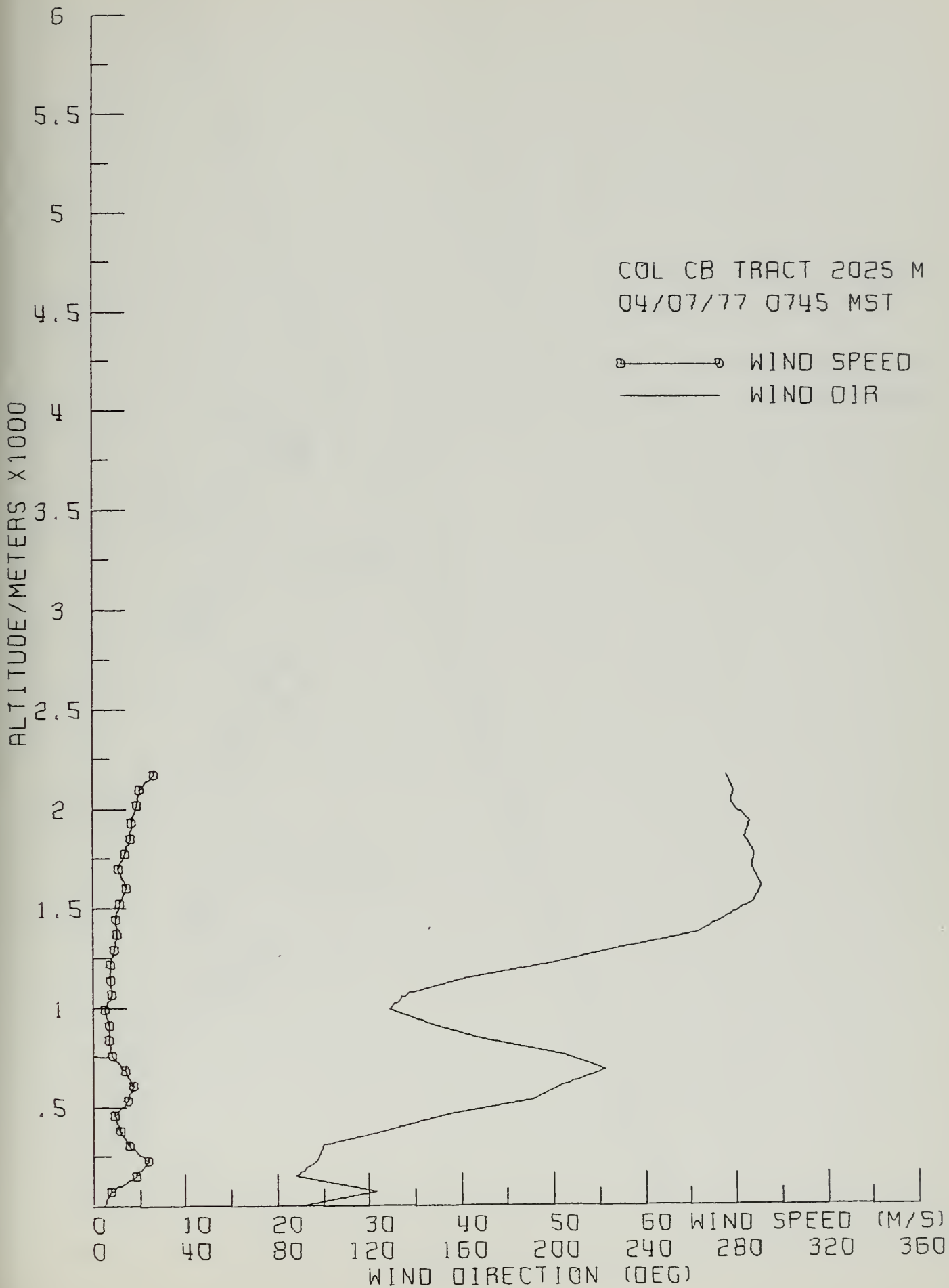
TEMPERATURE DEG/C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04/07/77 0745 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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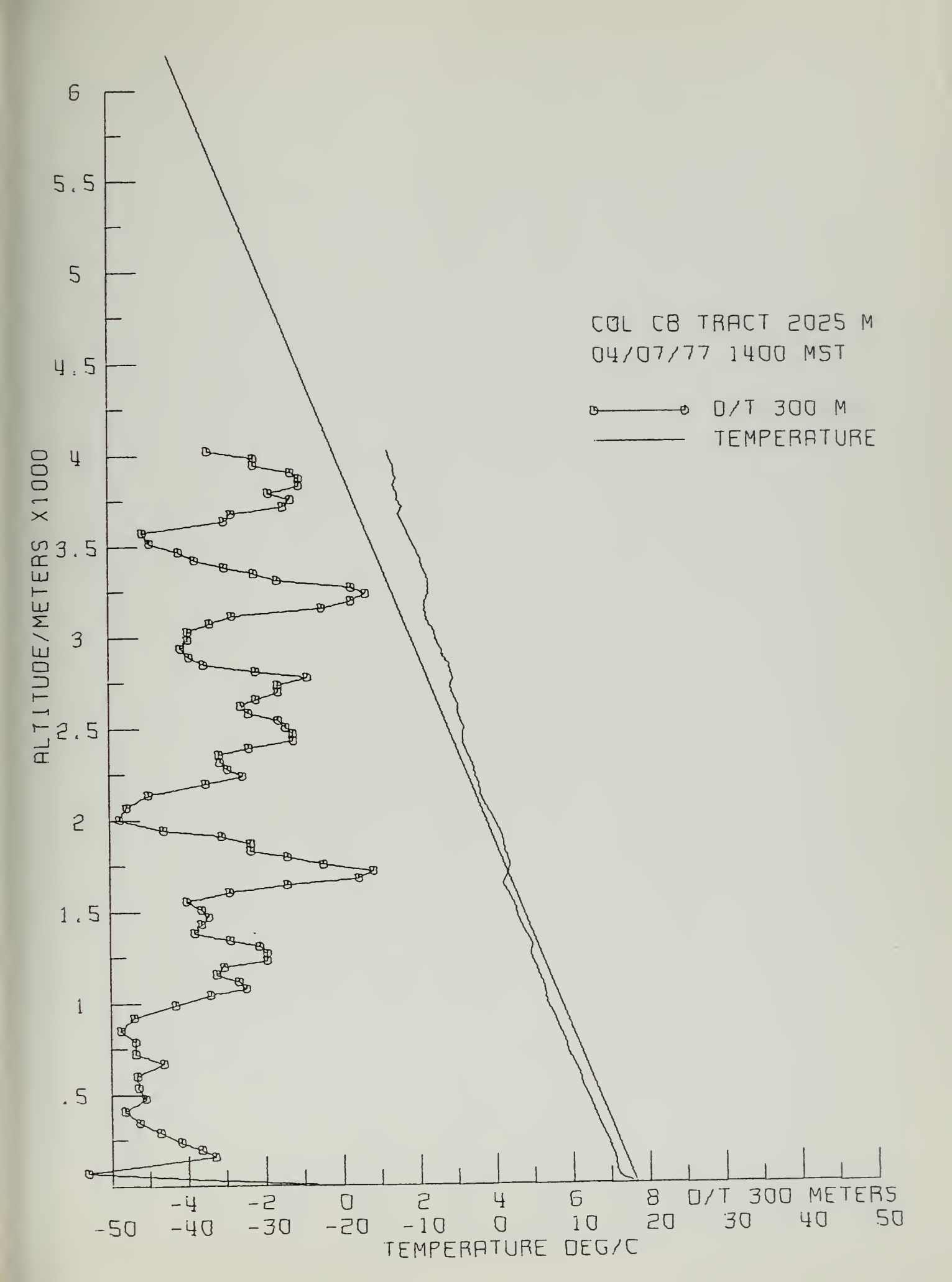
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/07/77 1400 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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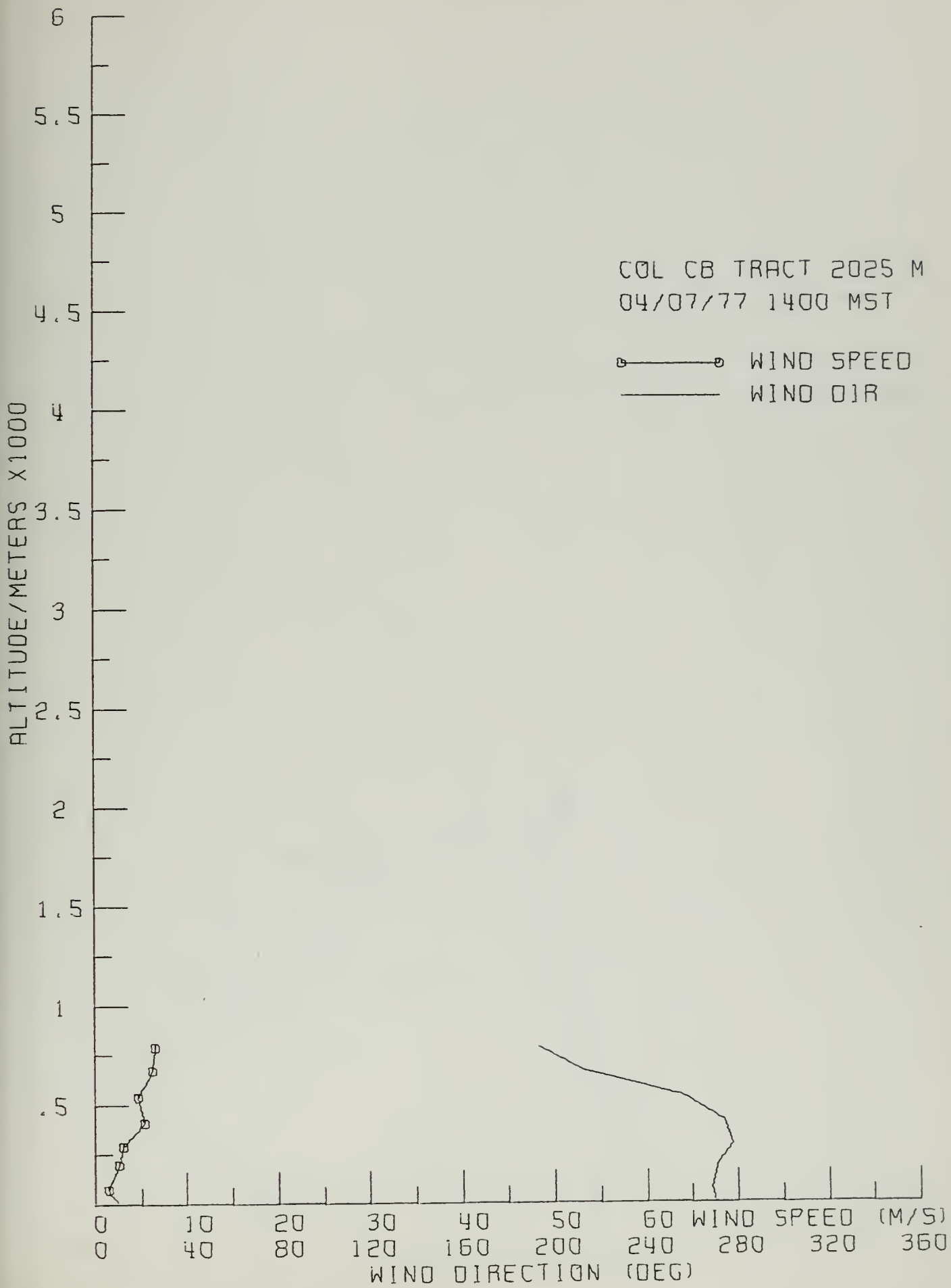
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/07/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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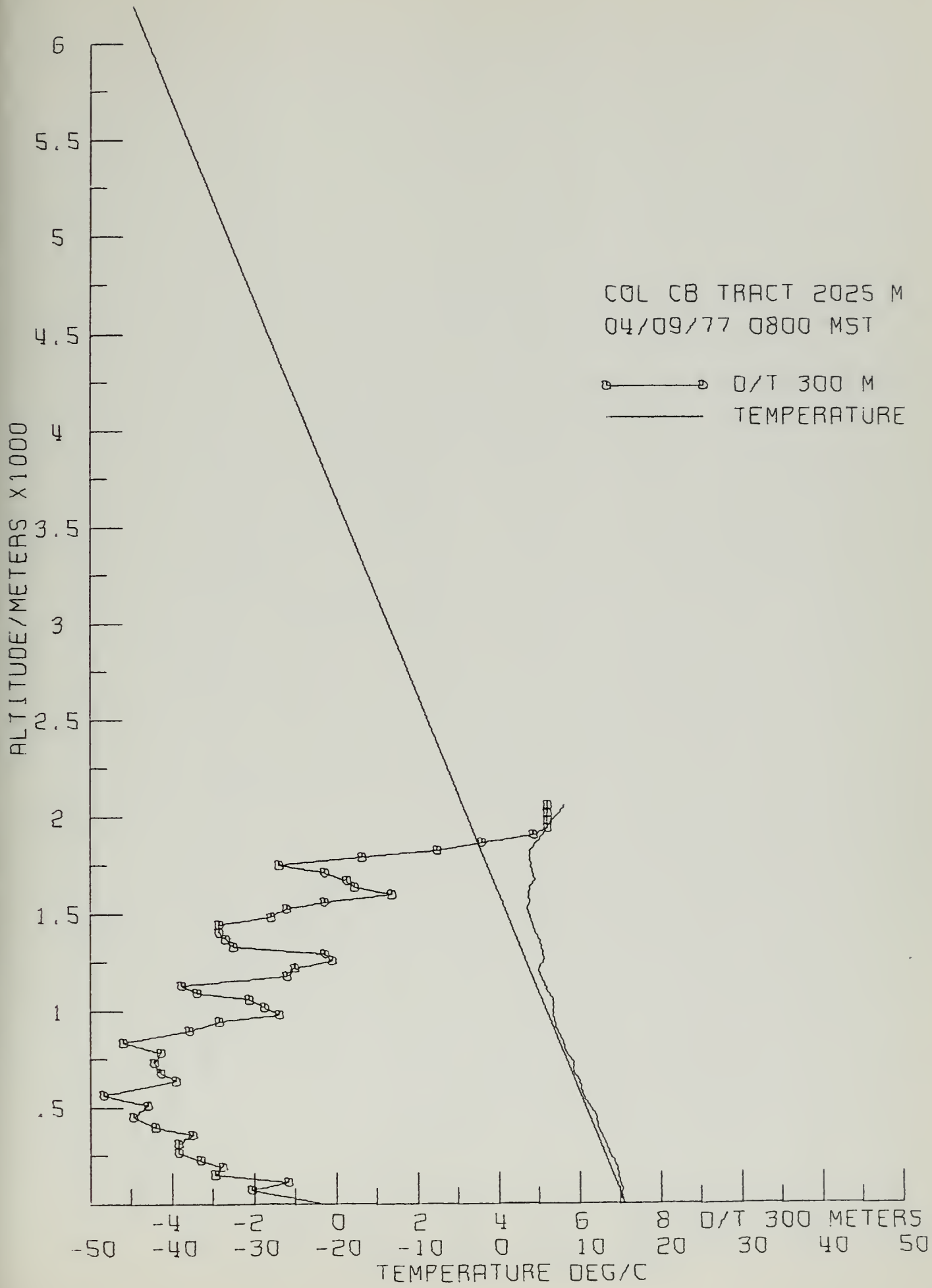
WIND DIRECTION (DEG)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04/09/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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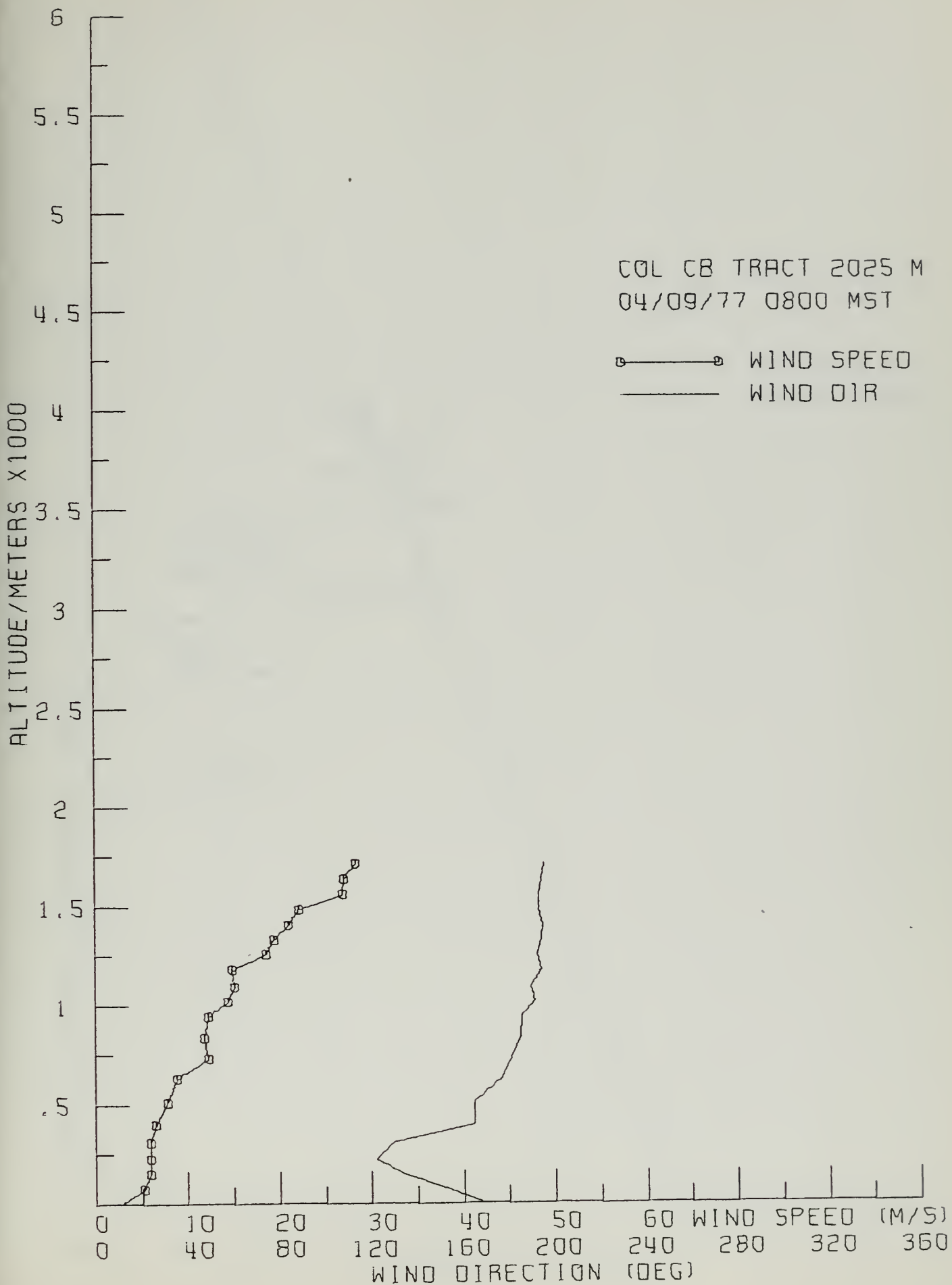
TEMPERATURE DEG/C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04/09/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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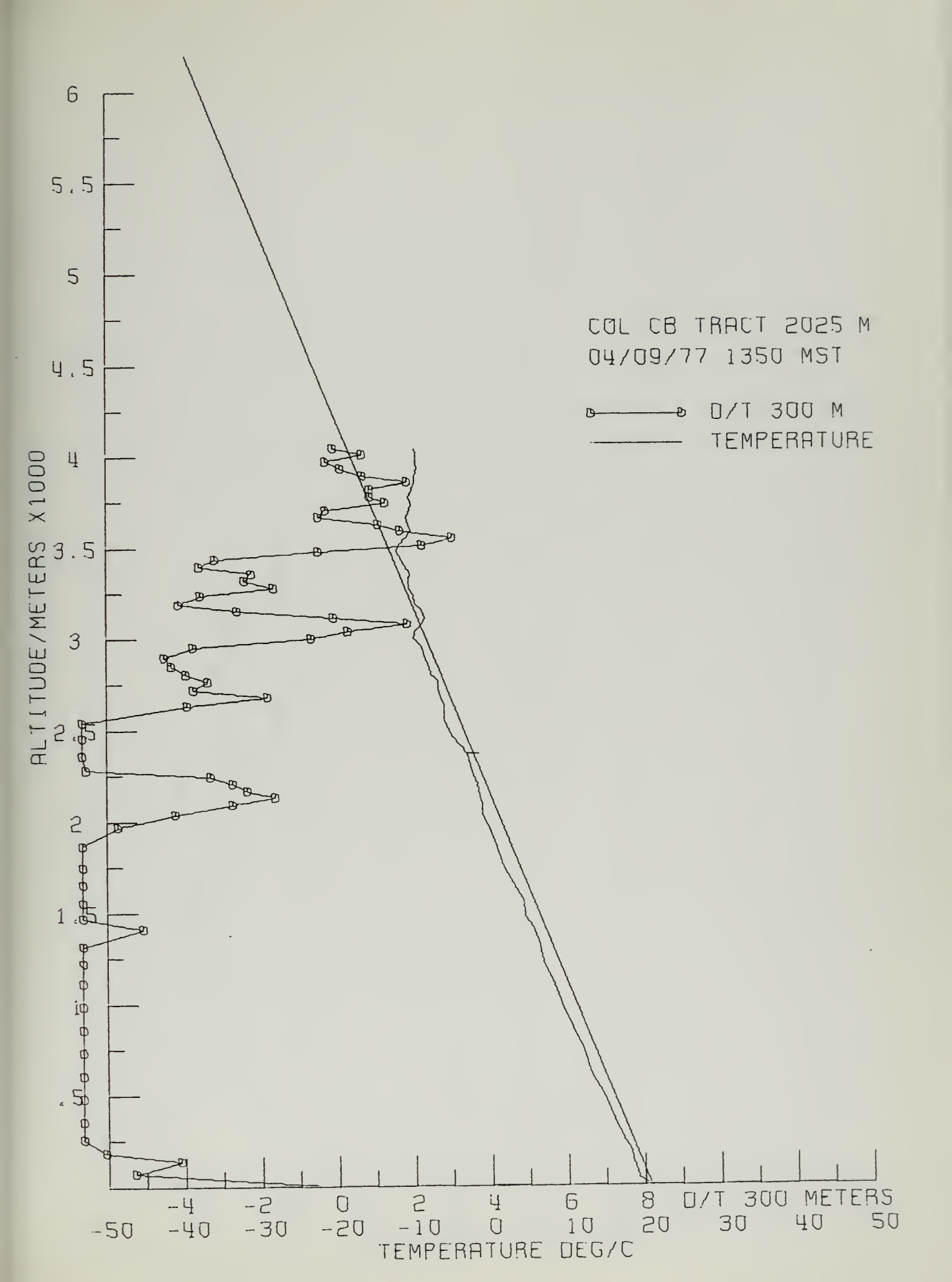
WIND DIRECTION (DEG)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O/T 300 METERS
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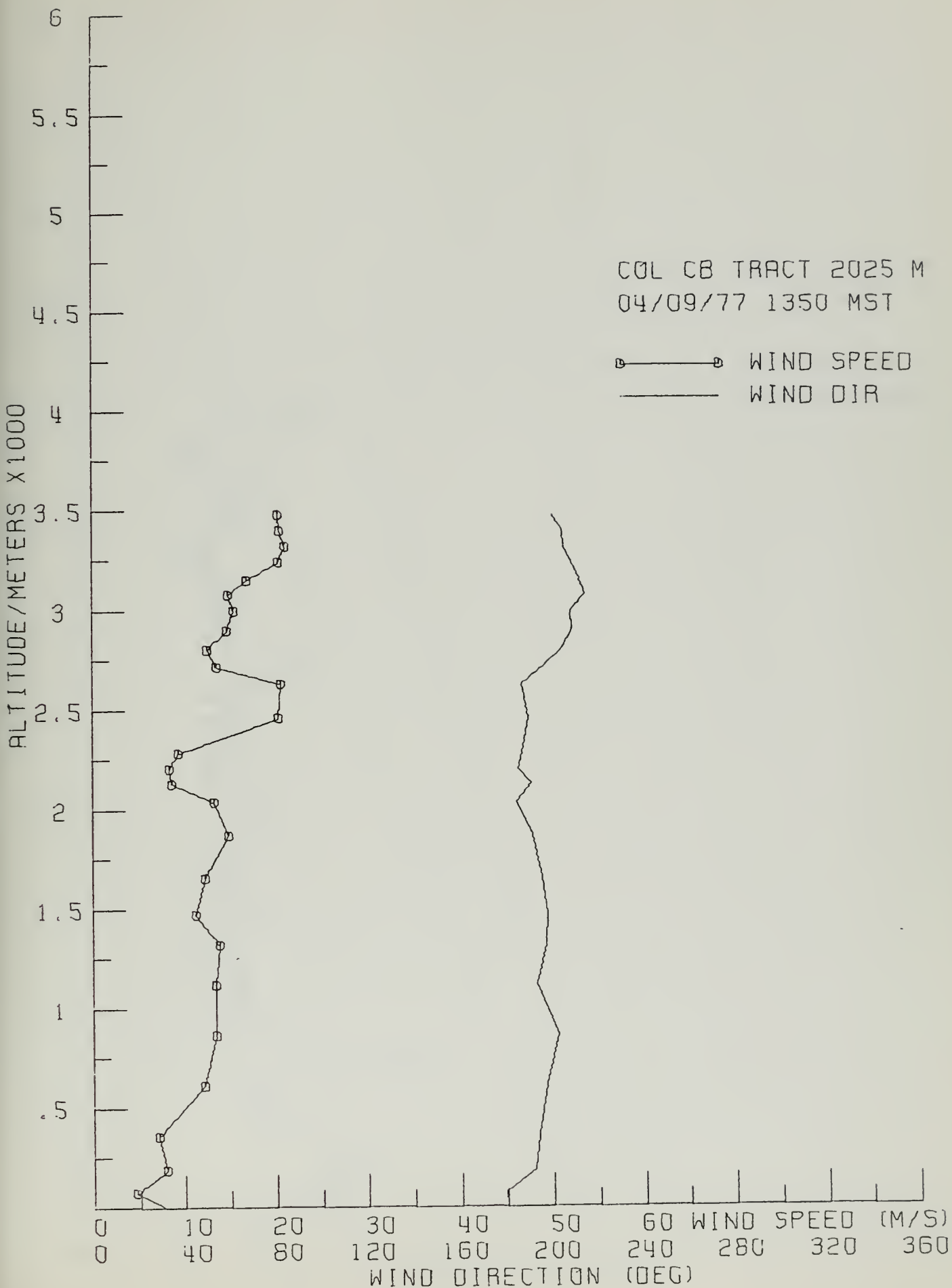
TEMPERATURE DEG/C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04/09/77 1350 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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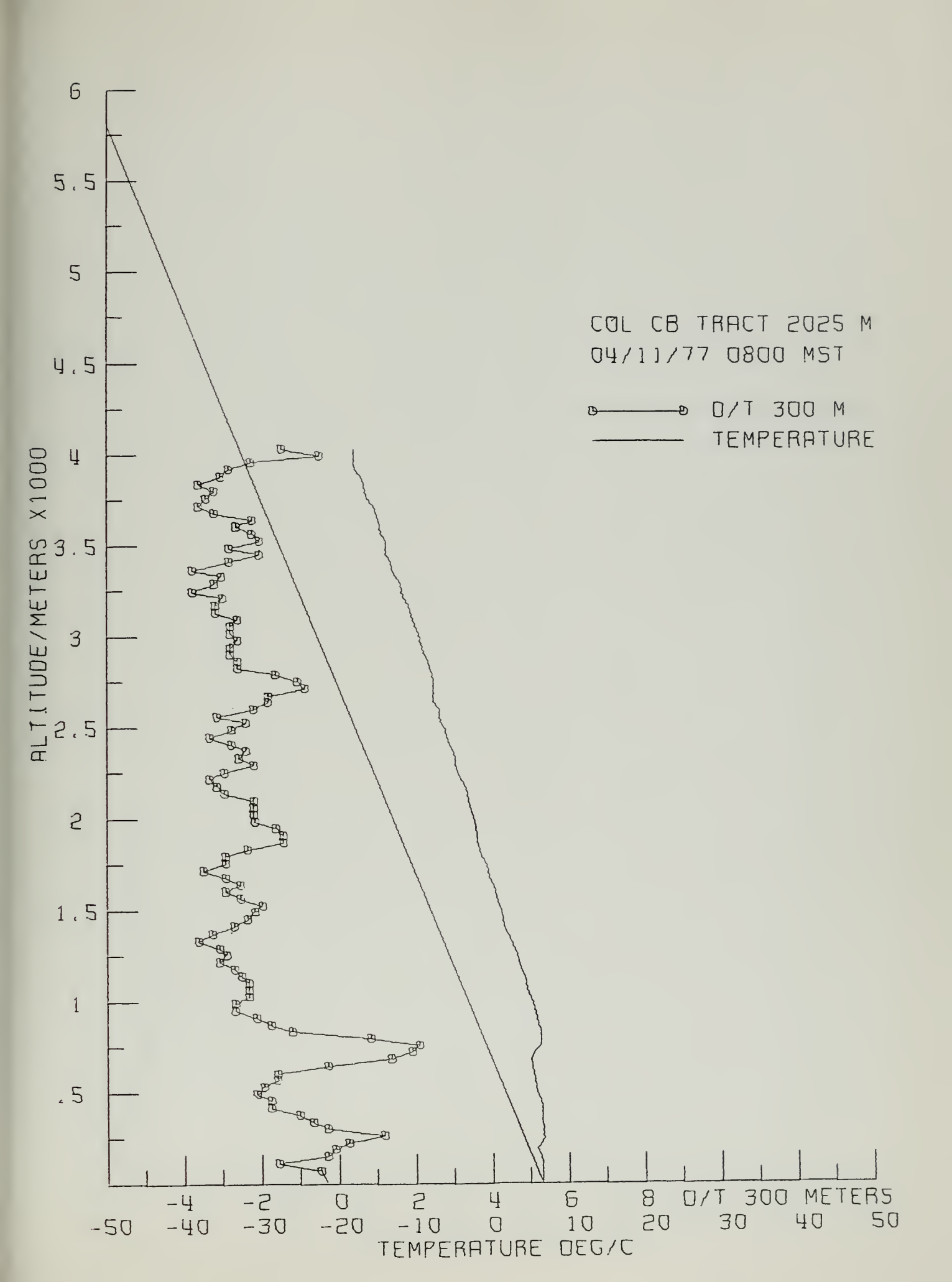
WIND DIRECTION (DEG)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04/11/77 0800 MST
O/T 300 M
TEMPERATURE
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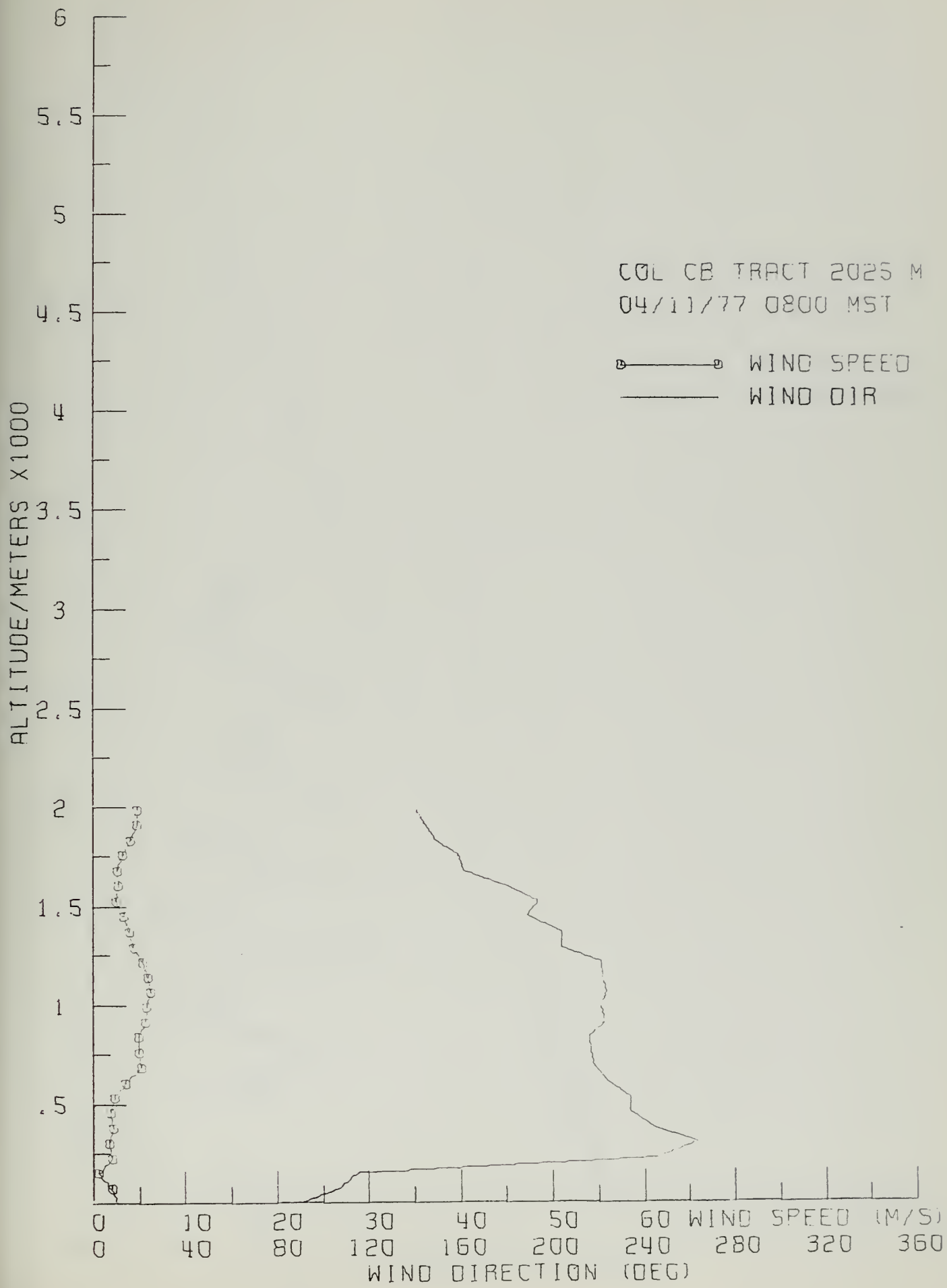
TEMPERATURE DEG/C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04/11/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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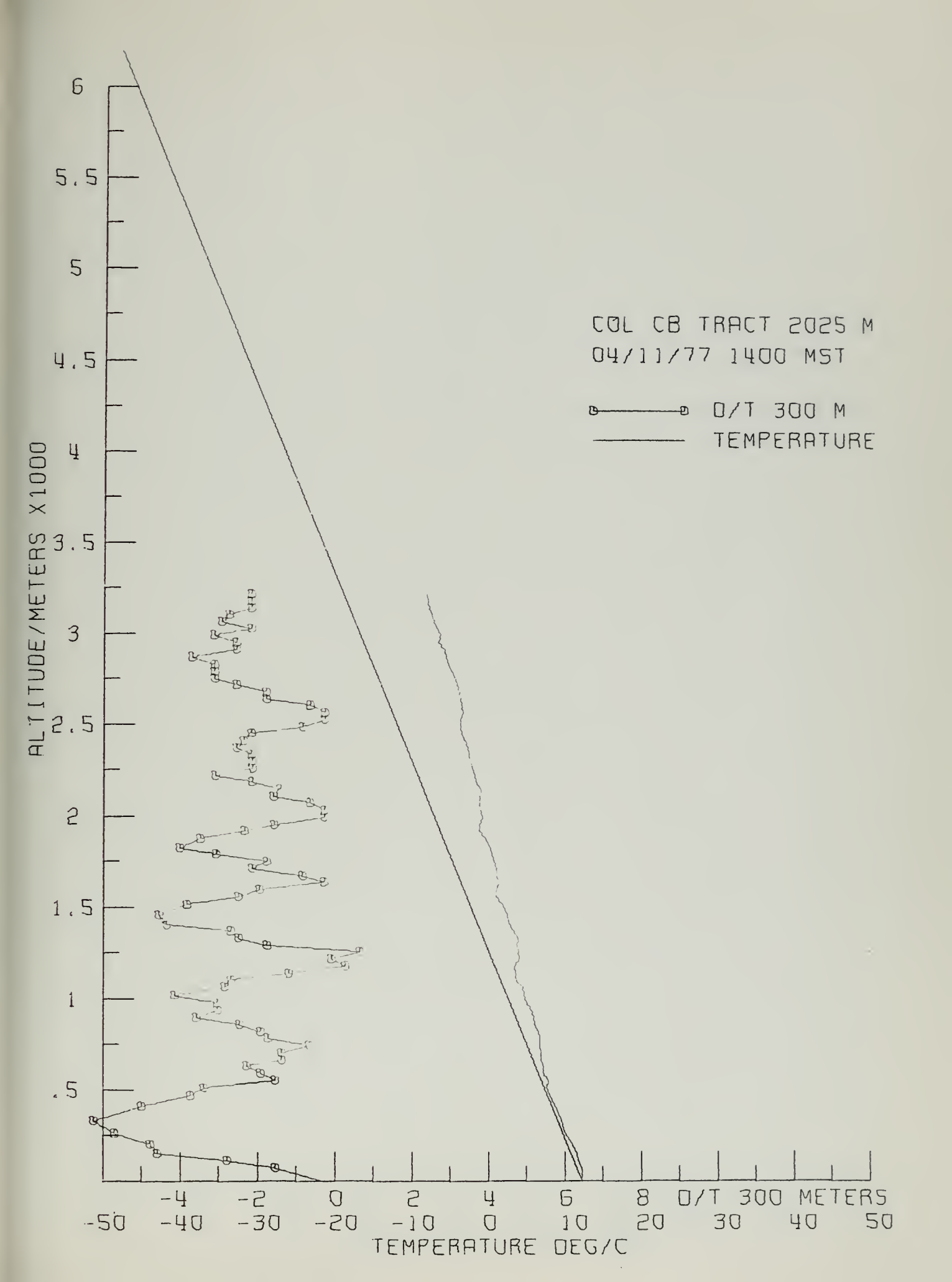
WIND DIRECTION (DEG)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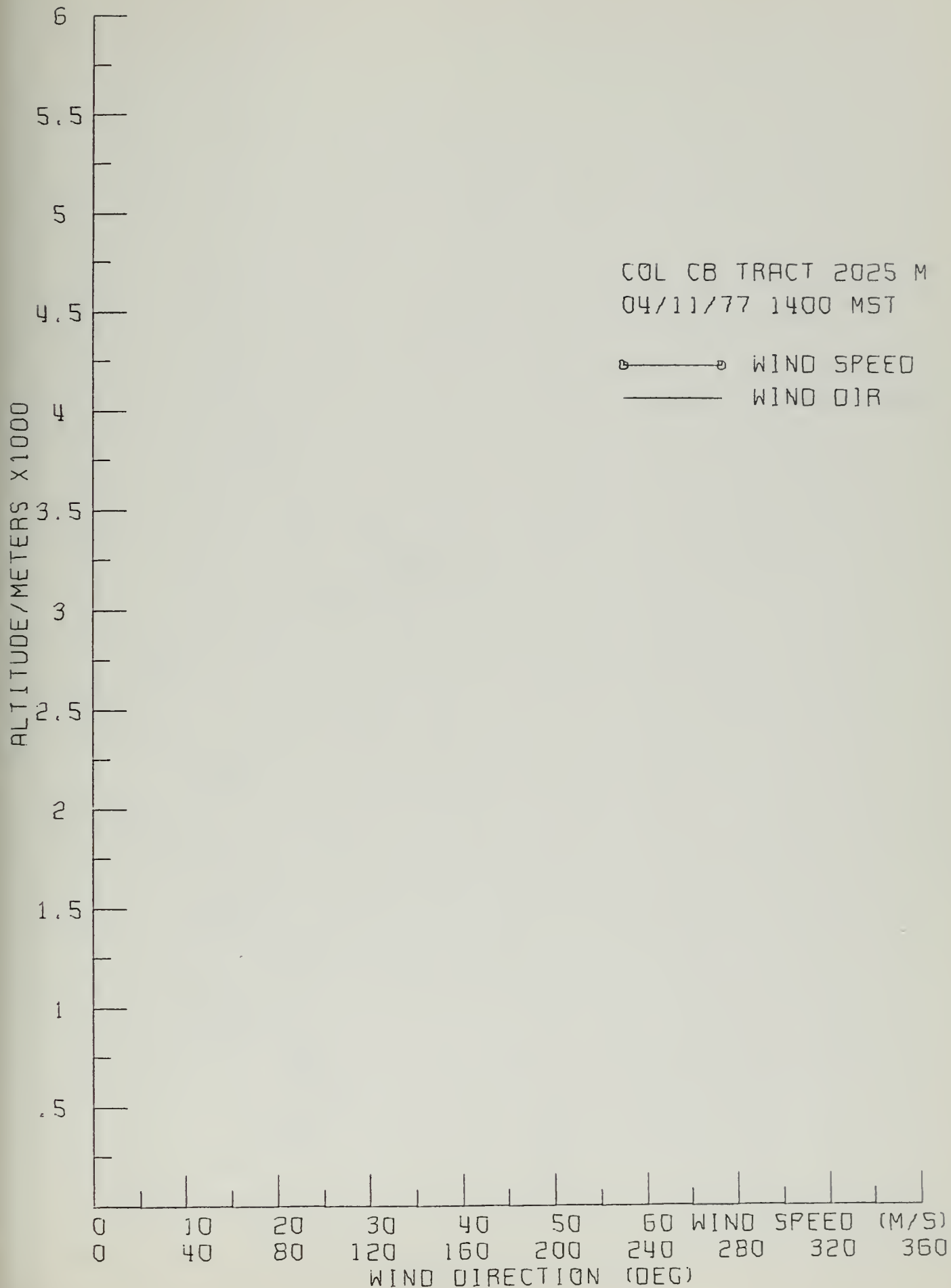
TEMPERATURE DEG/C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04/11/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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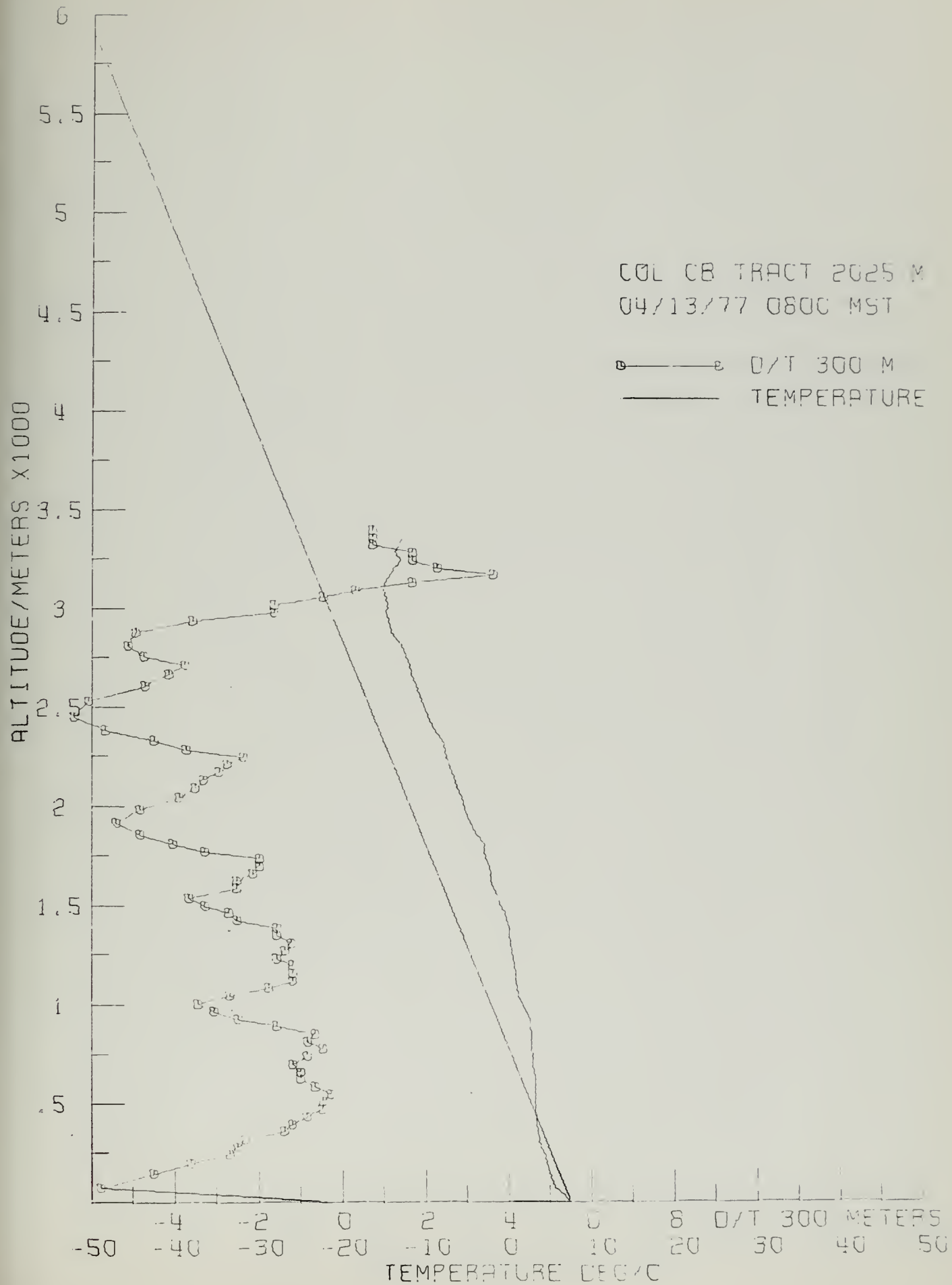
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/13/77 0800 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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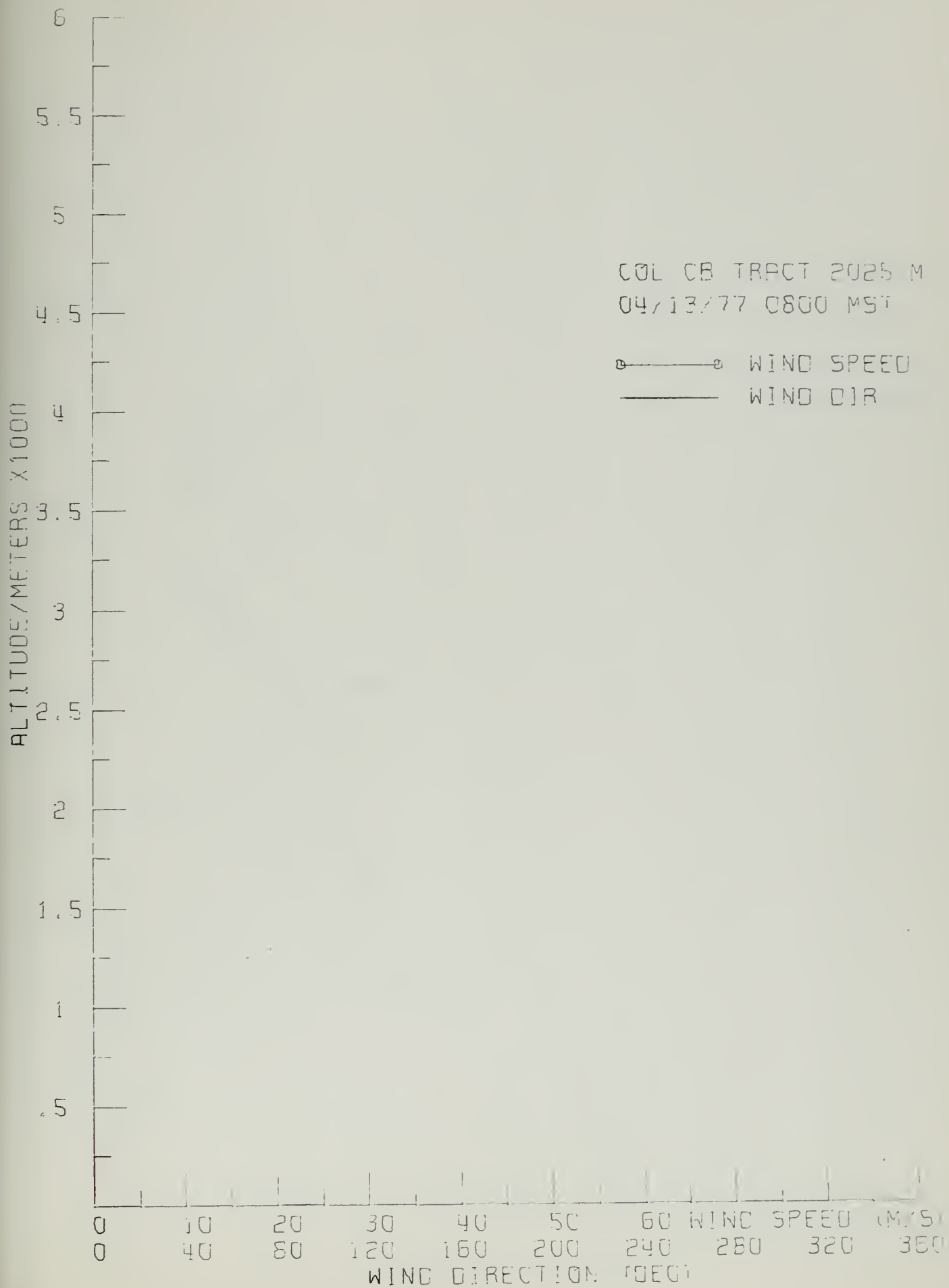
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/13/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDES/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

COL CB TRACT 2025 M
04/13/77 1430 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
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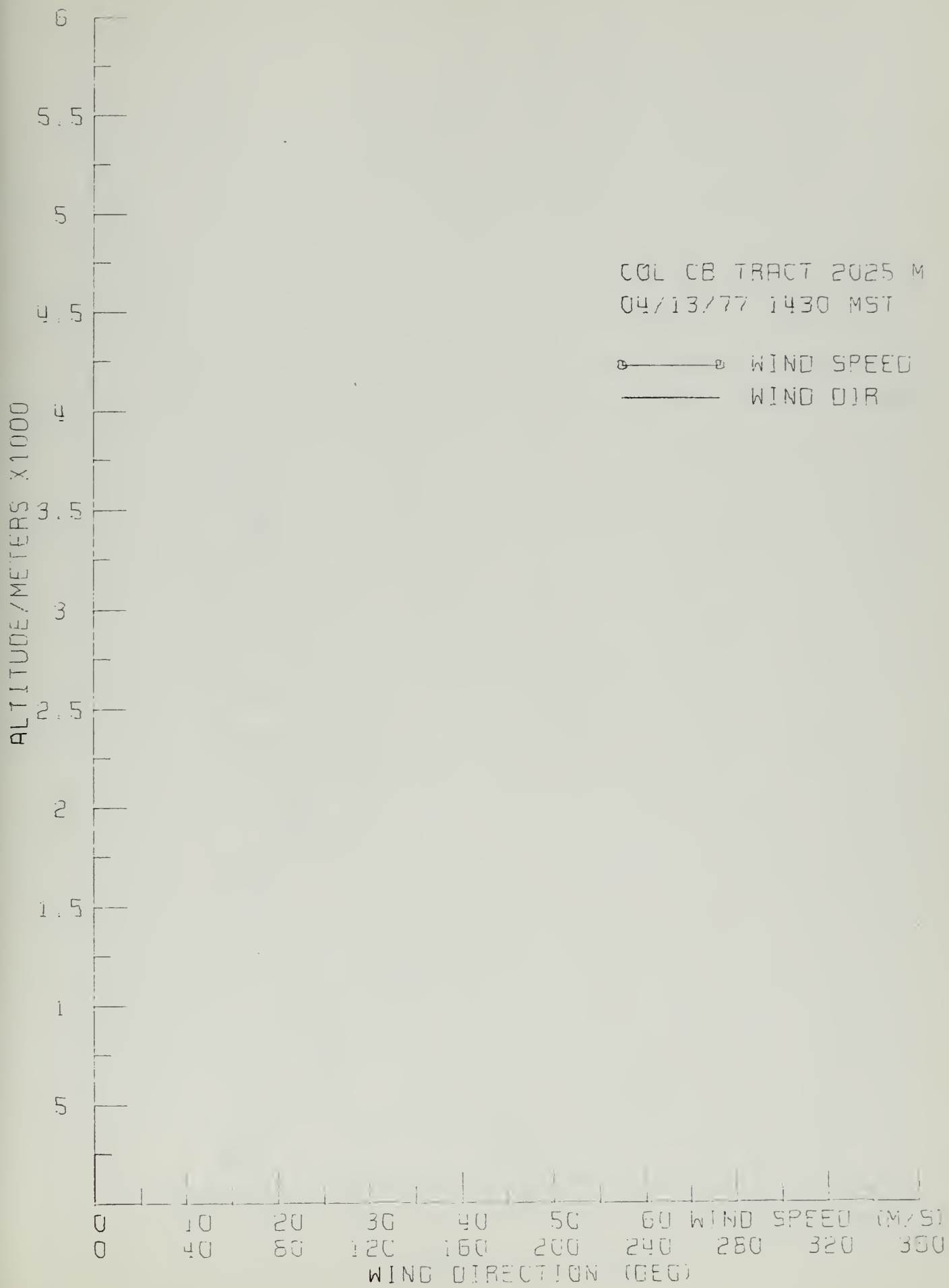
O/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG. C


COL CB TRACT 2025 M
04/13/77 1430 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5
4.5
4
3.5
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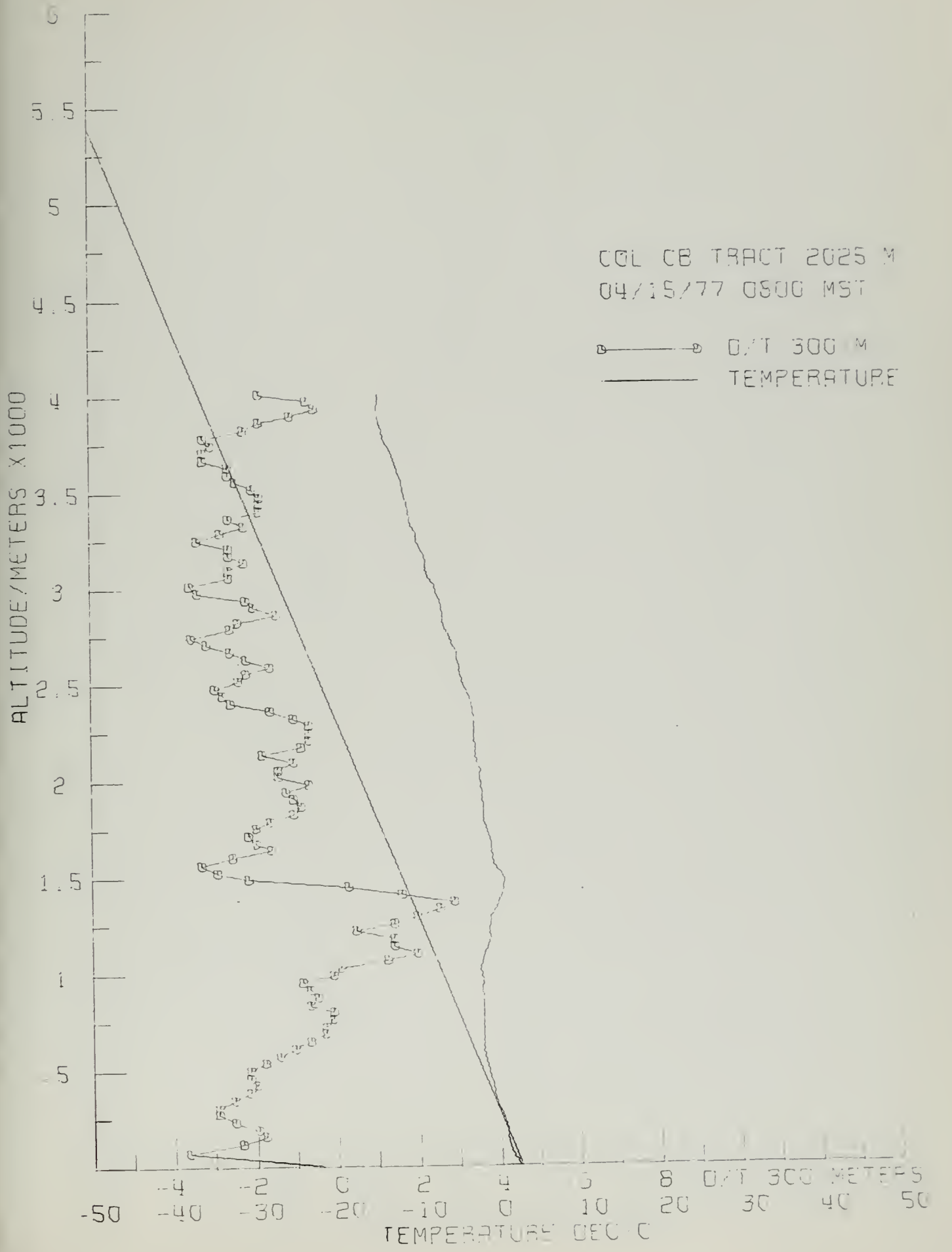
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/15/77 0500 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
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2.5
2
1.5
1
.5
-4
-2
0
2
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D/T 300 METERS
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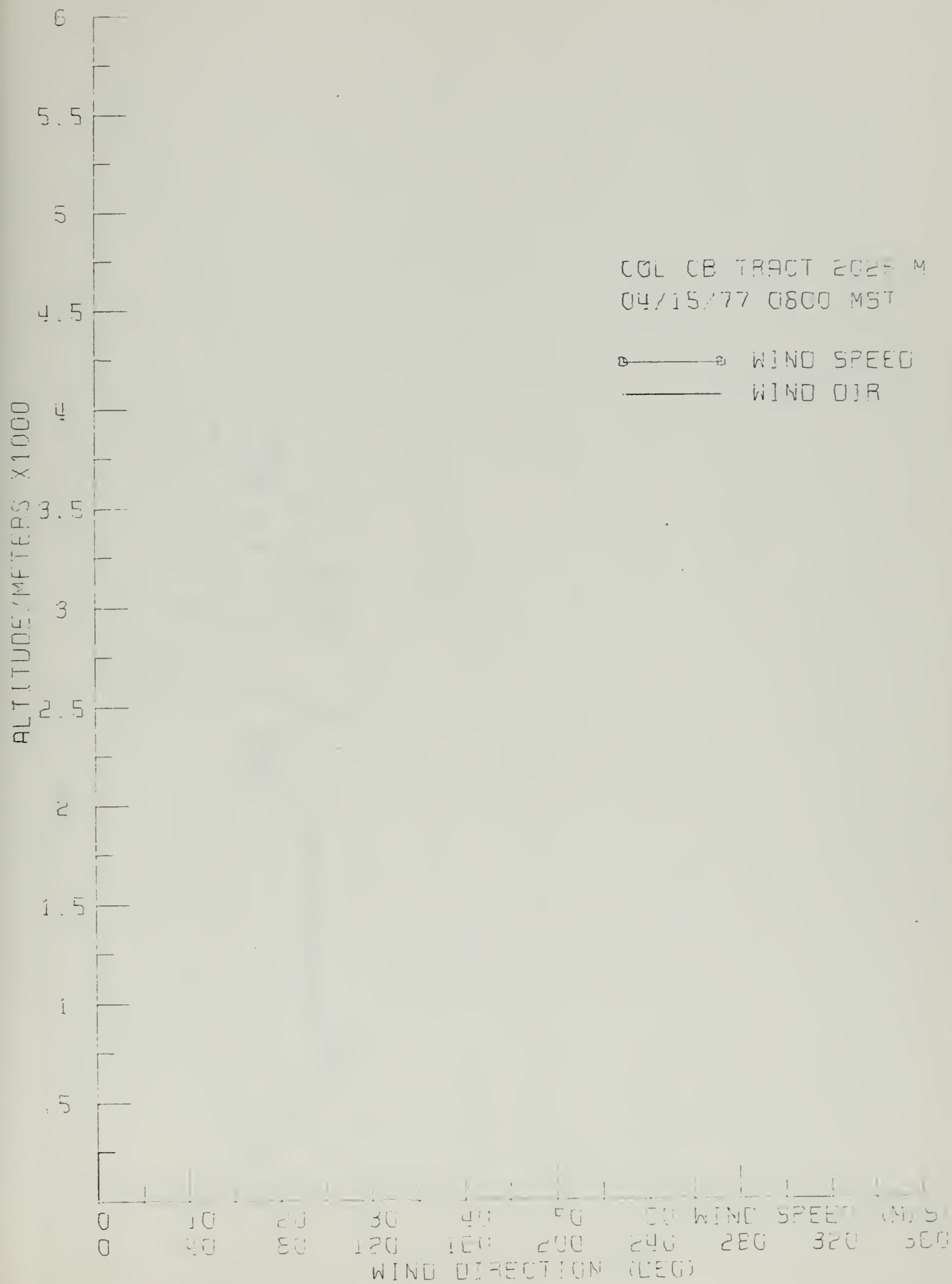
TEMPERATURE DEG C


COL CB TRACT 2025 M
04/15/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
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4.5
4
3.5
3
2.5
2
1.5
1
.5
0
10
20
30
40
50
60
WIND SPEED (M/S)
0
40
80
120
160
200
240
280
320
360
WIND DIRECTION (DEG)

COL CB TRACT 2025 M
04/15/77 1415 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
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D/T 300 METERS
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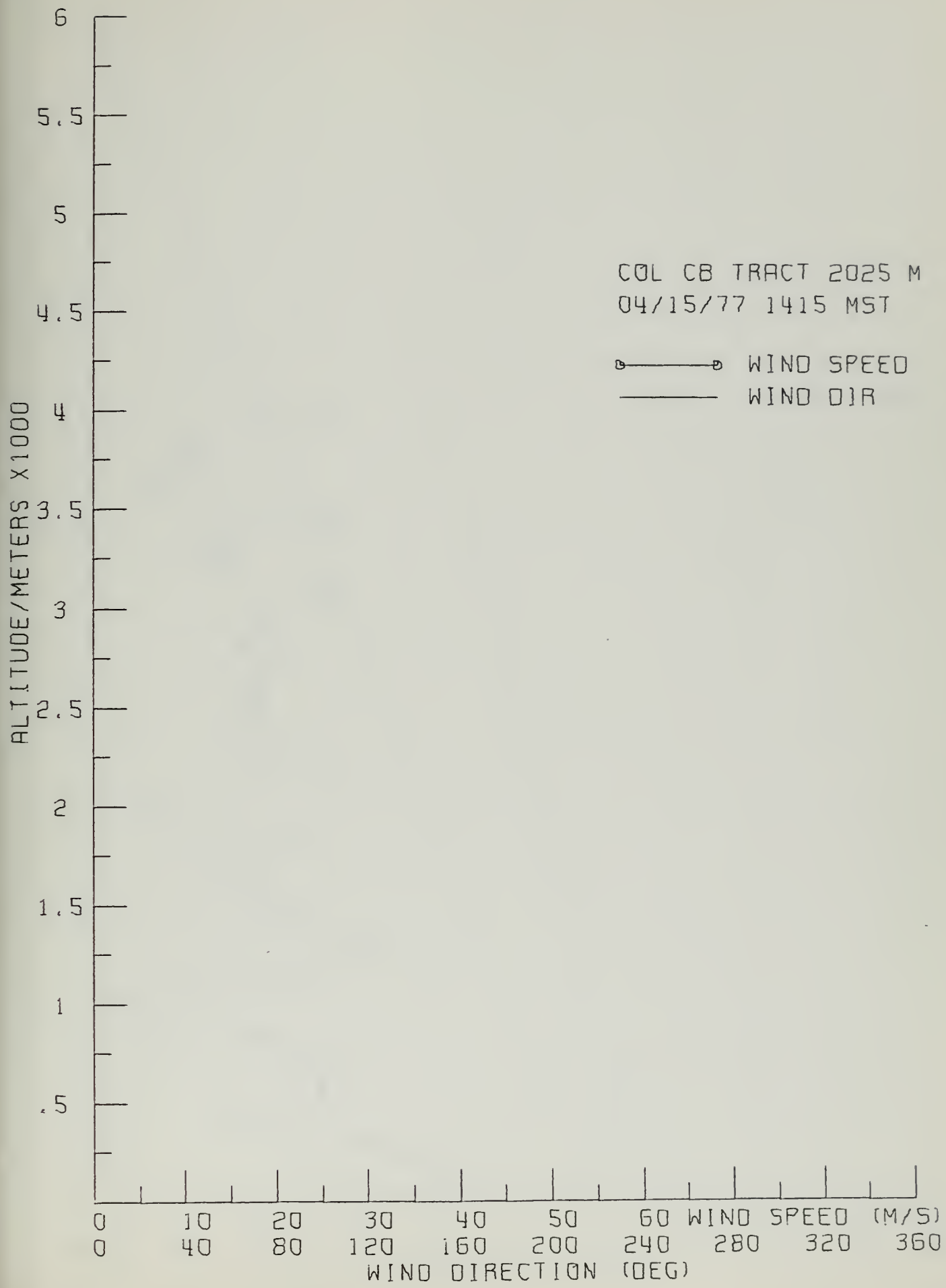
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/15/77 1415 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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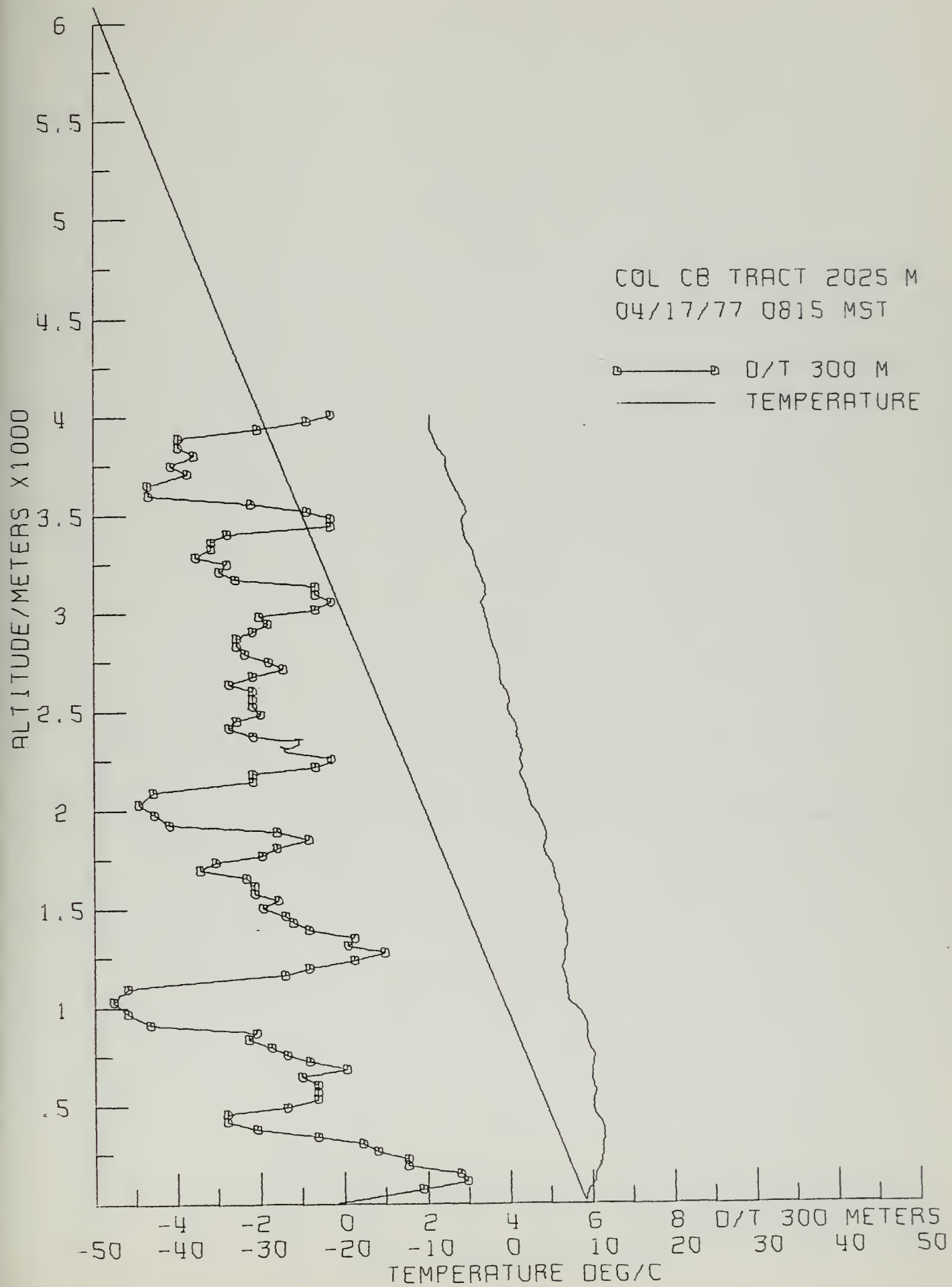
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/17/77 0815 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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4.5
4
3.5
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2.5
2
1.5
1
.5
-4
-2
0
2
4
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O/T 300 METERS
-50
-40
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-20
-10
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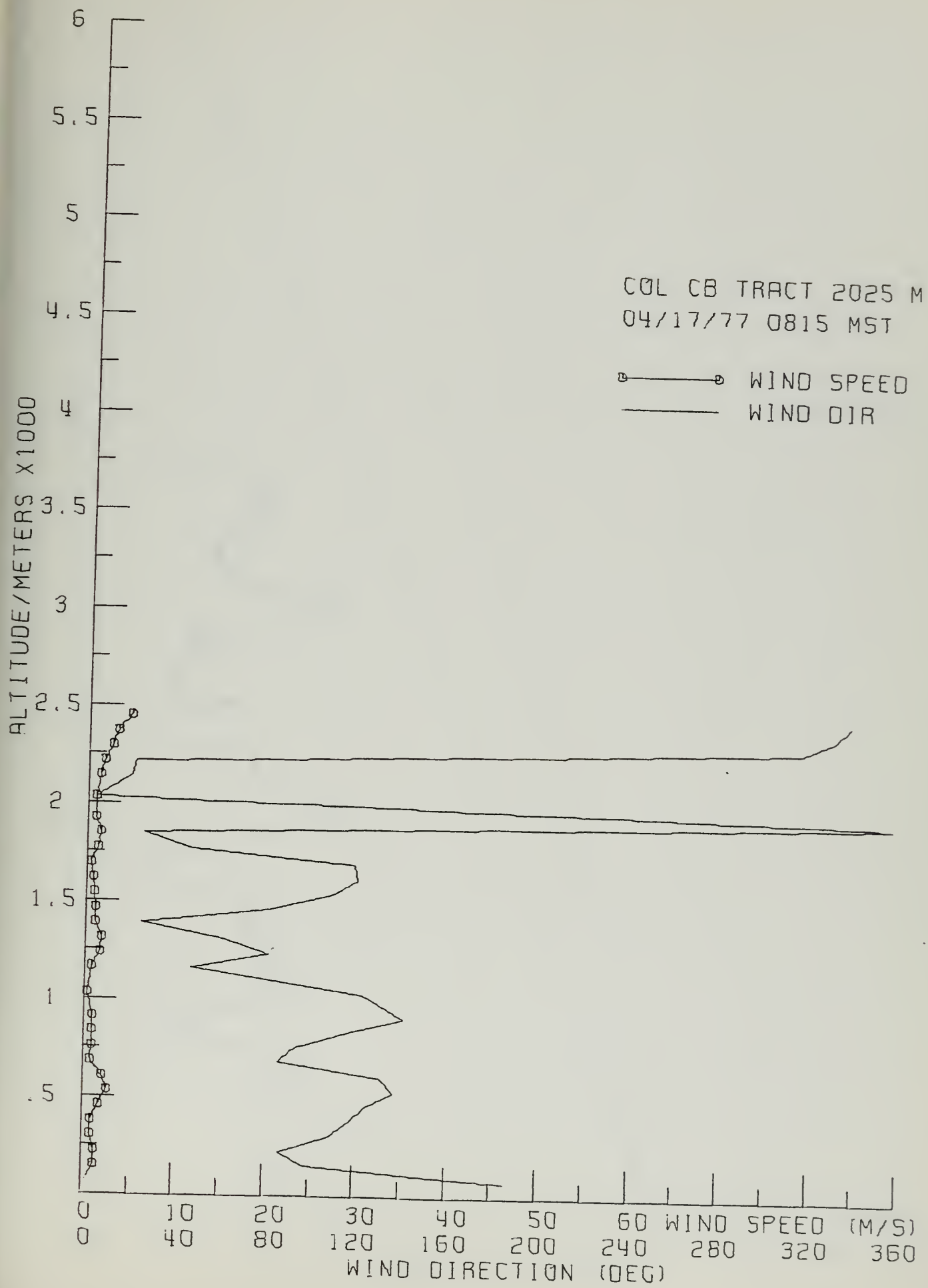
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/17/77 0815 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
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4.5
4
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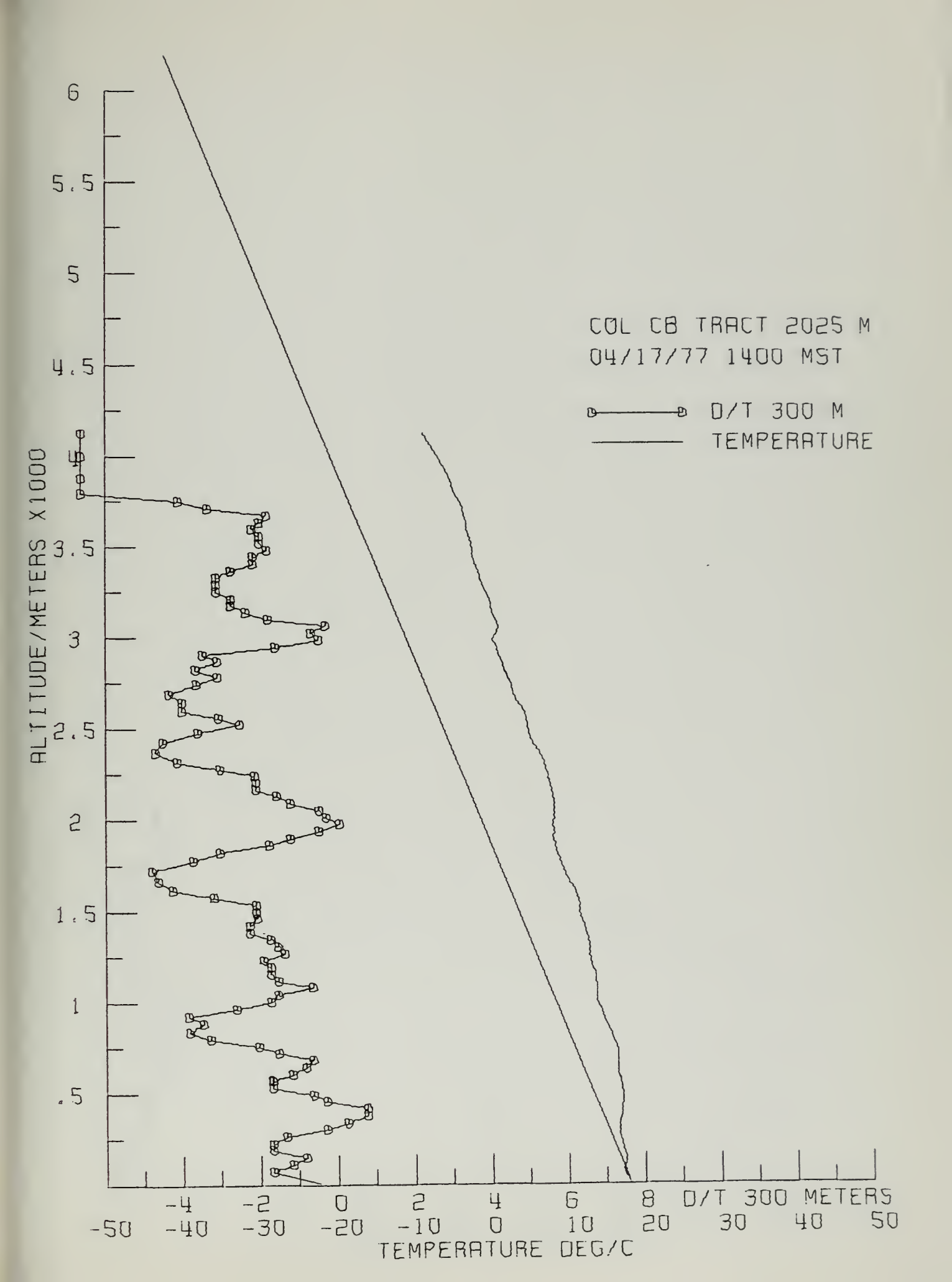
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/17/77 1400 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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3.5
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2.5
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1.5
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-4
-2
0
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D/T 300 METERS
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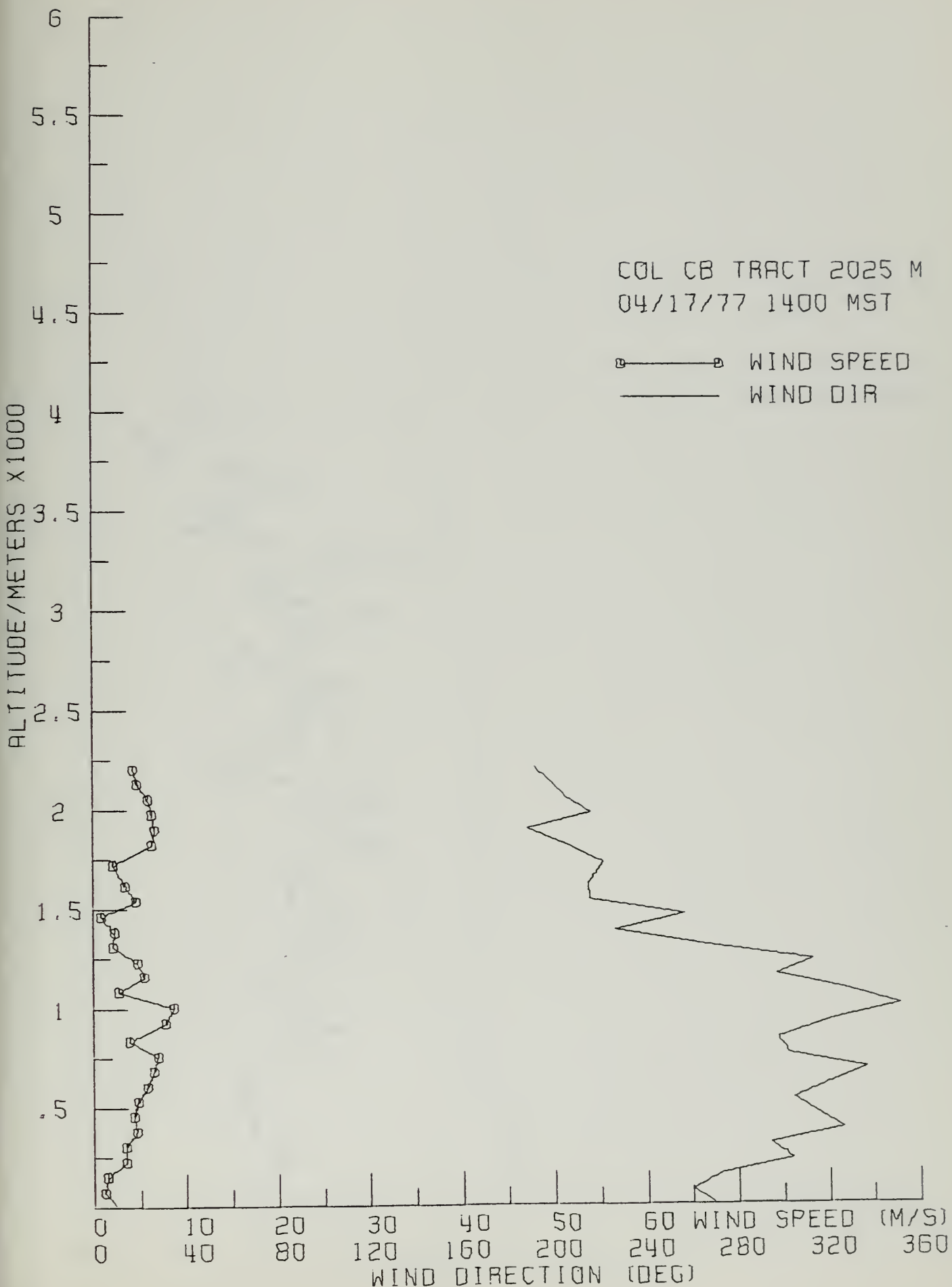
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/17/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
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4.5
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3.5
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1.5
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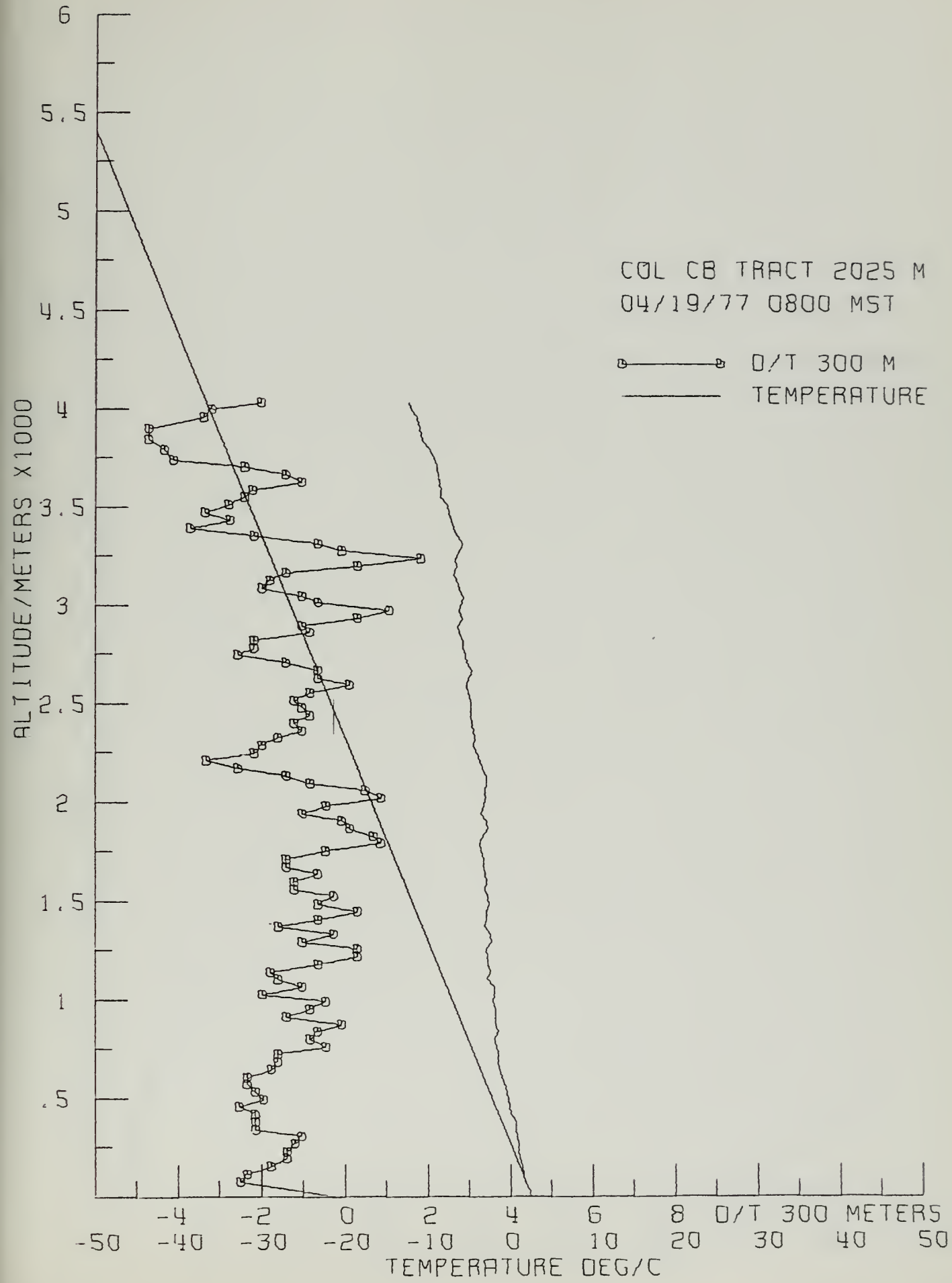
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/19/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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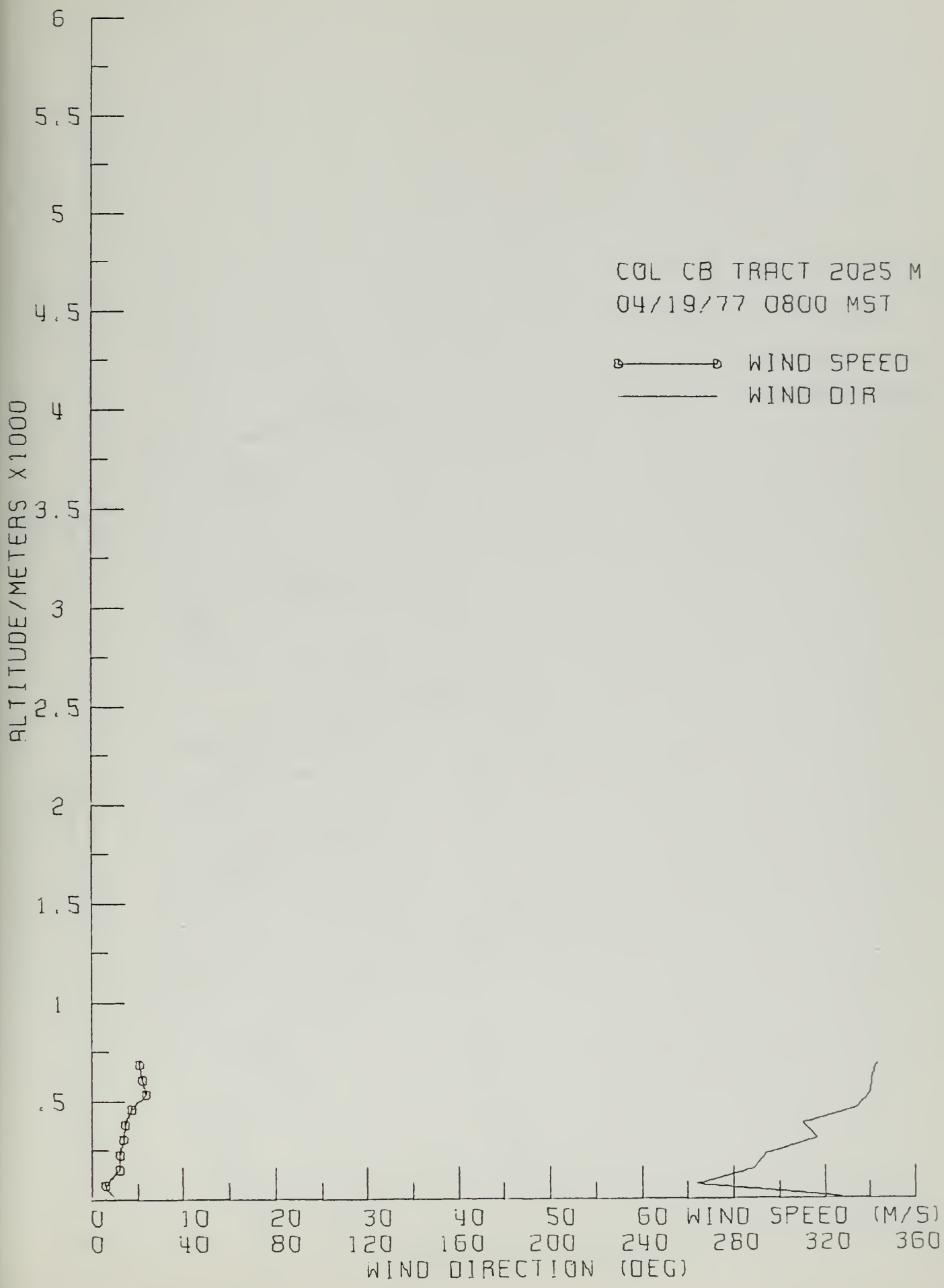
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/19/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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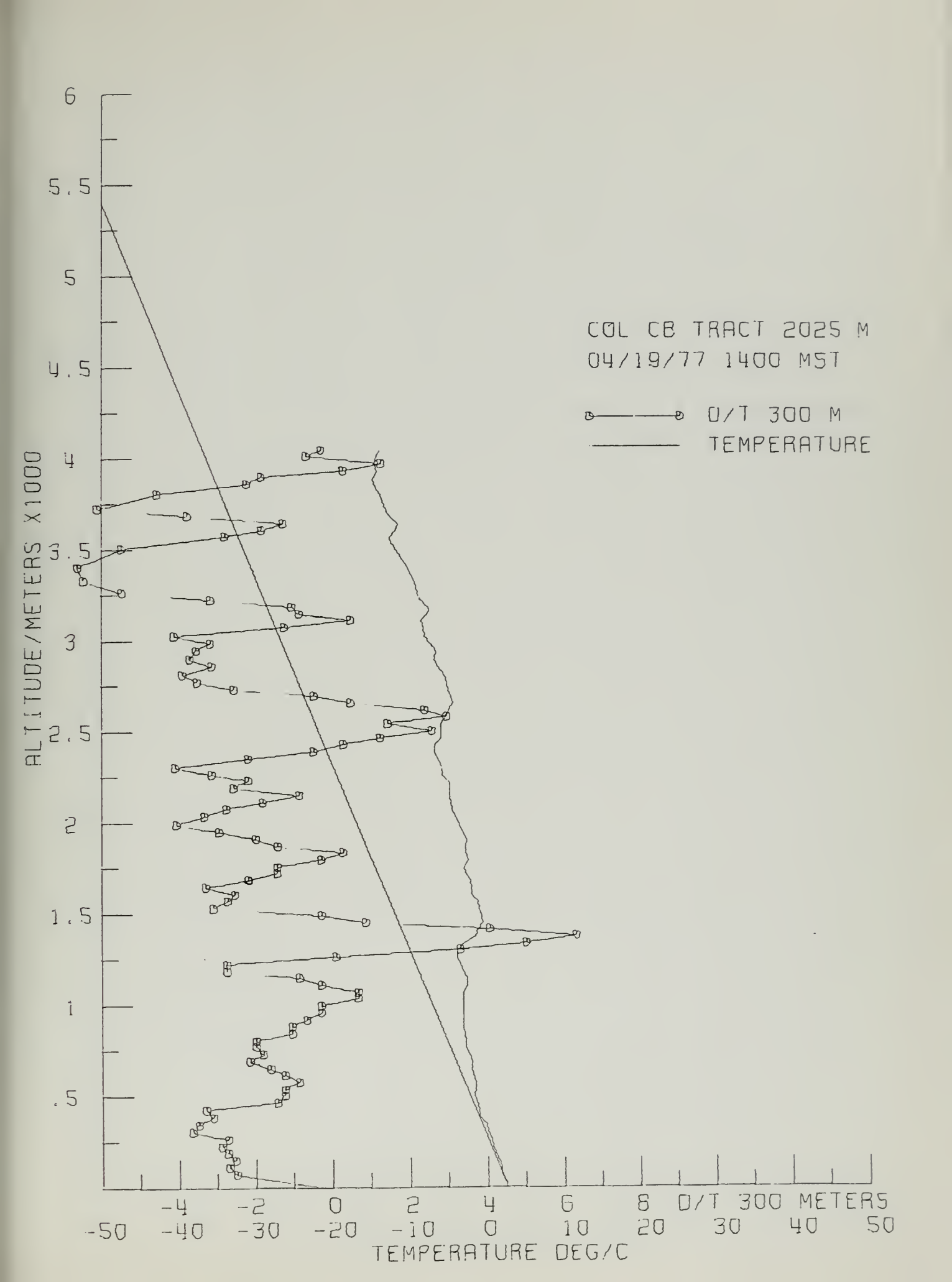
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/19/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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-10
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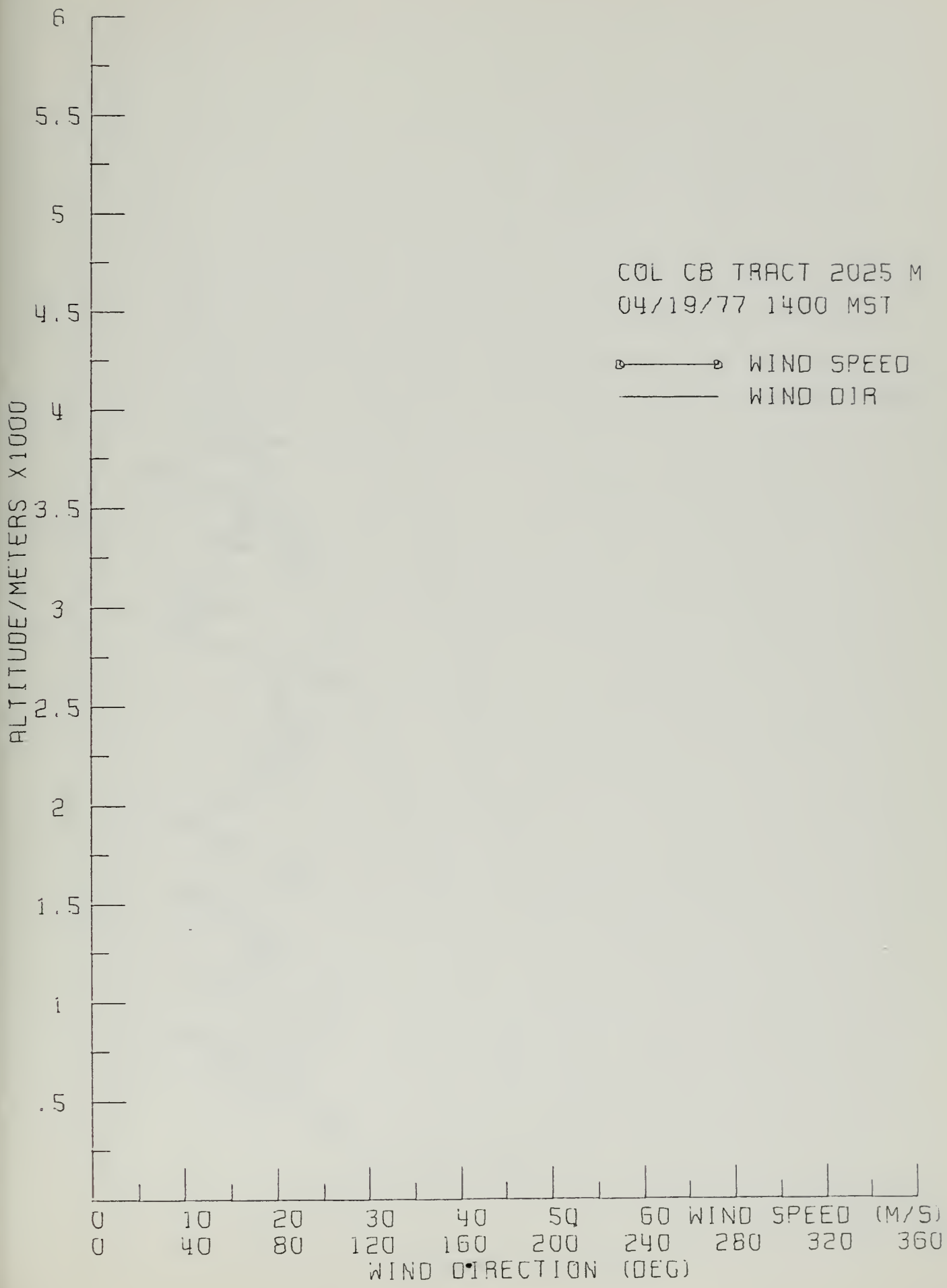
40
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/19/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
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3.5
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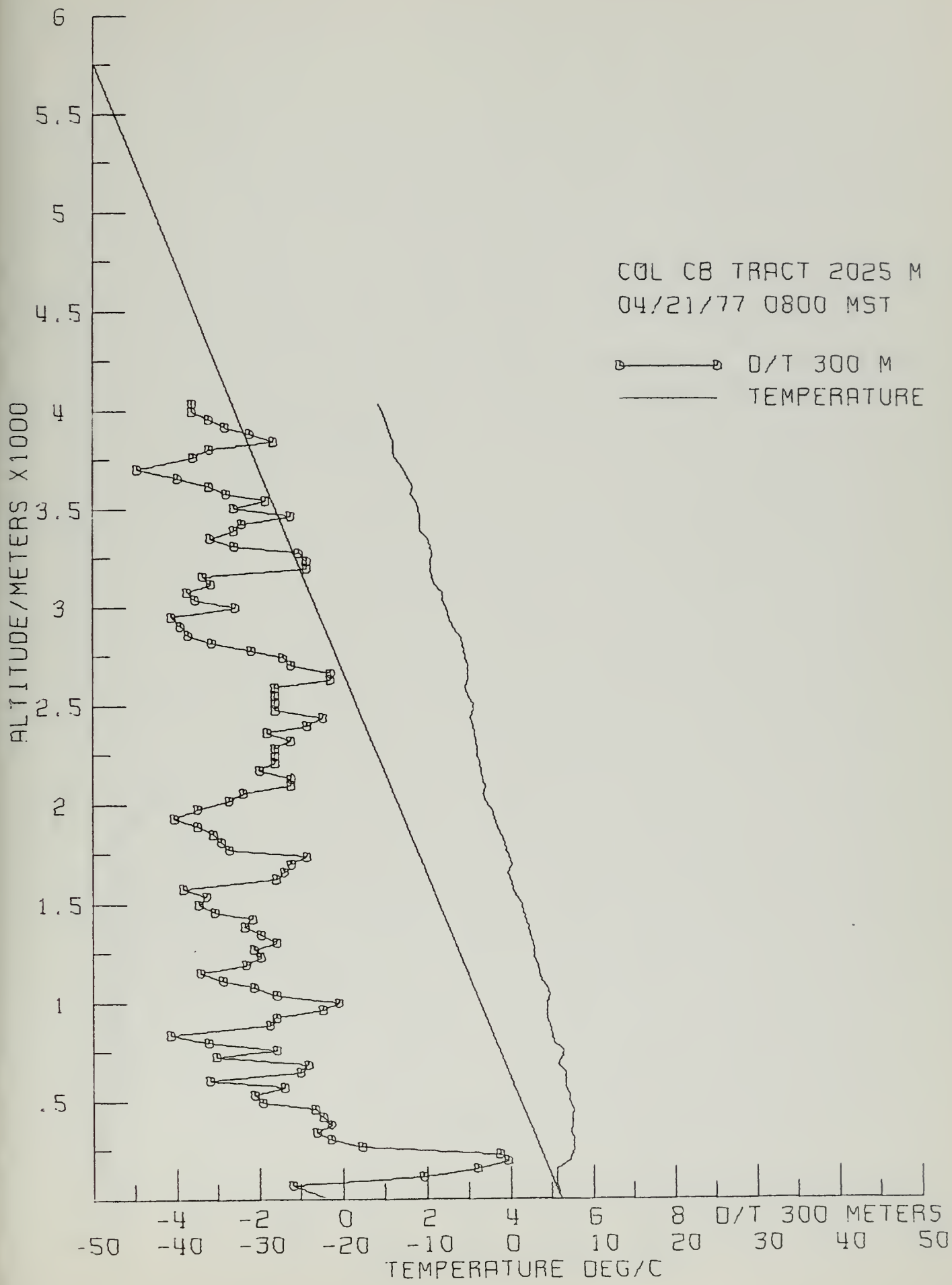
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/21/77 0800 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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O/T 300 METERS
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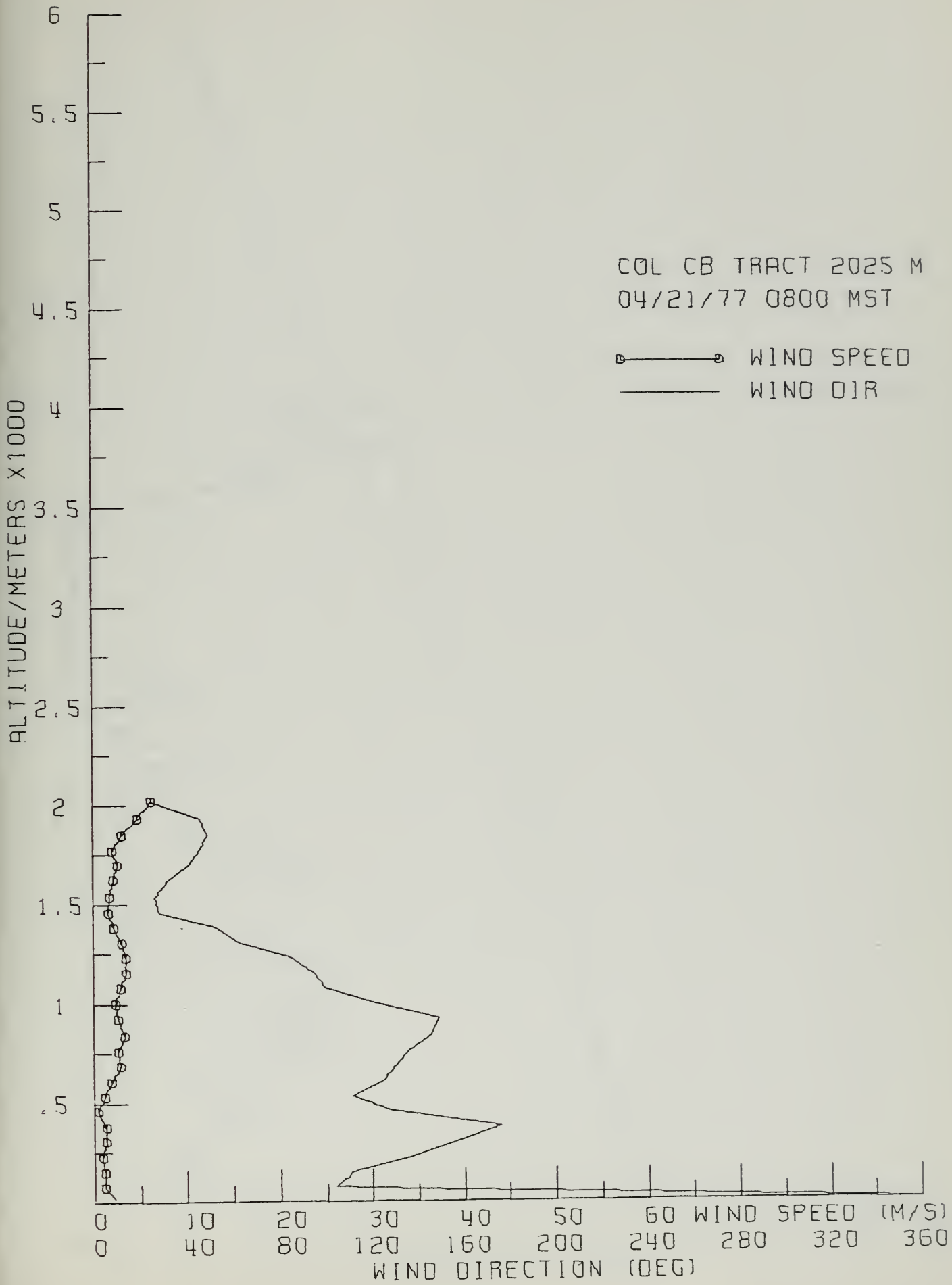
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/21/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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3.5
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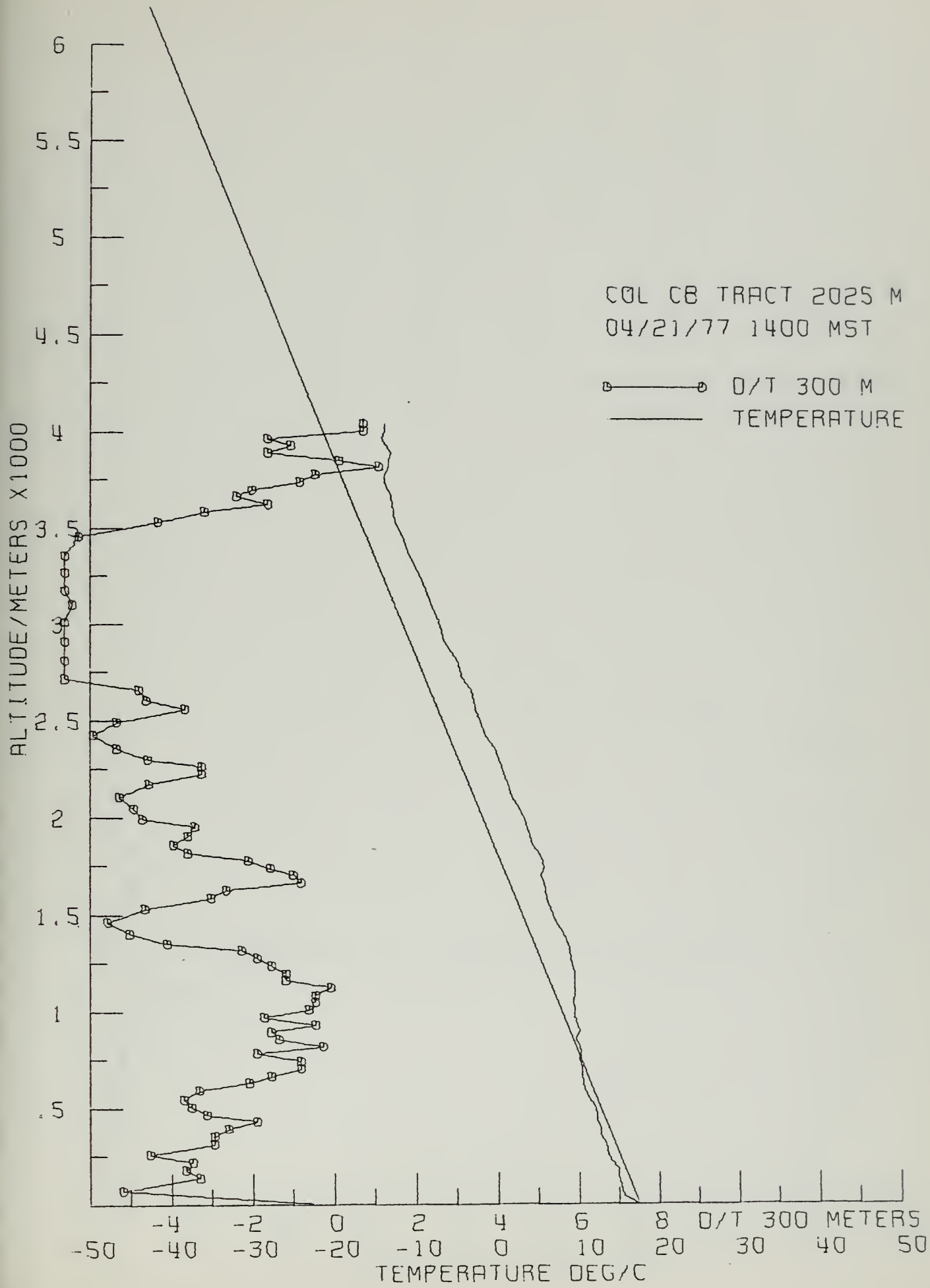
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/21/77 1400 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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3.5
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2.5
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1.5
1
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0
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4
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O/T 300 METERS
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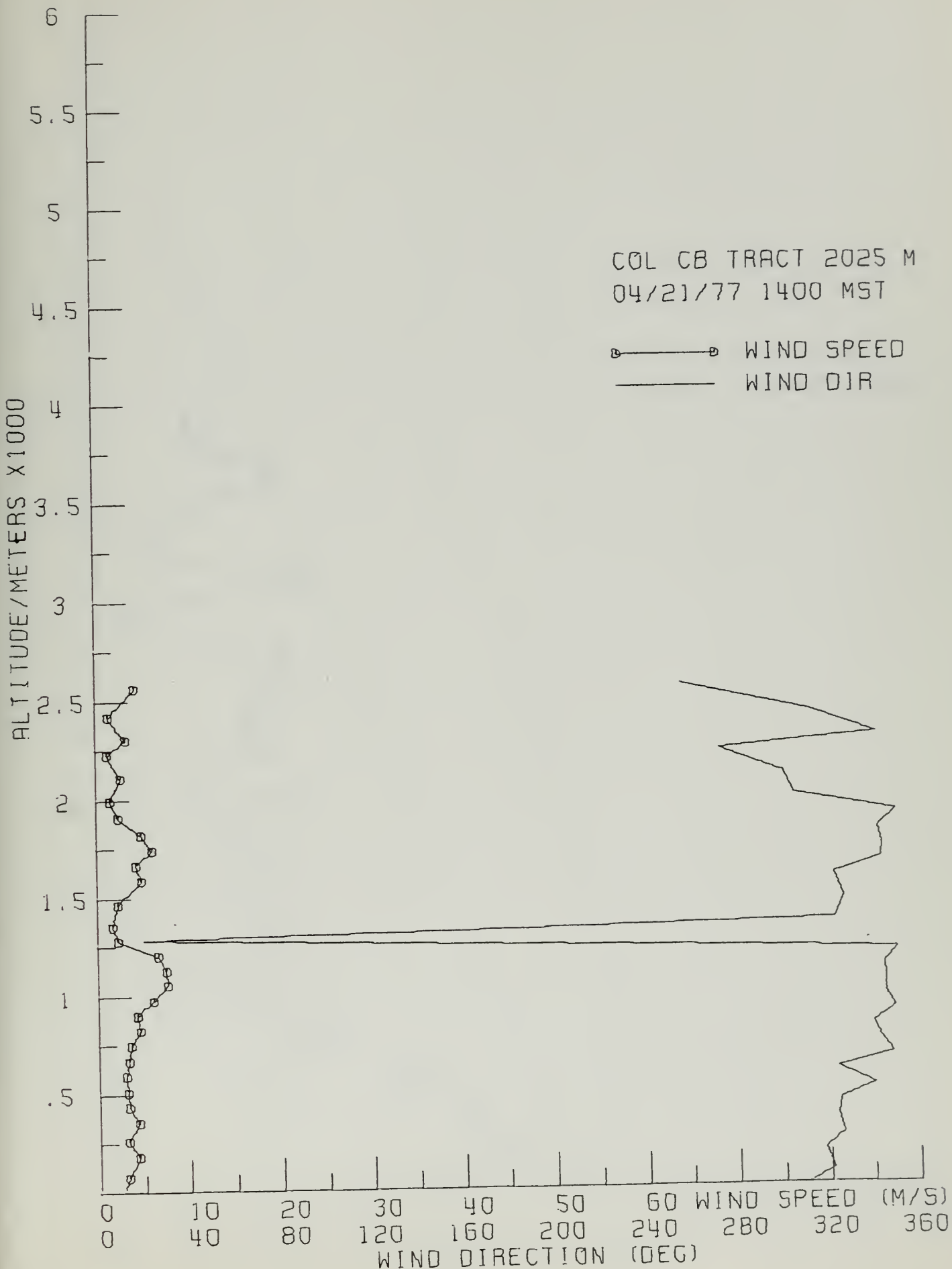
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/21/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
4
3.5
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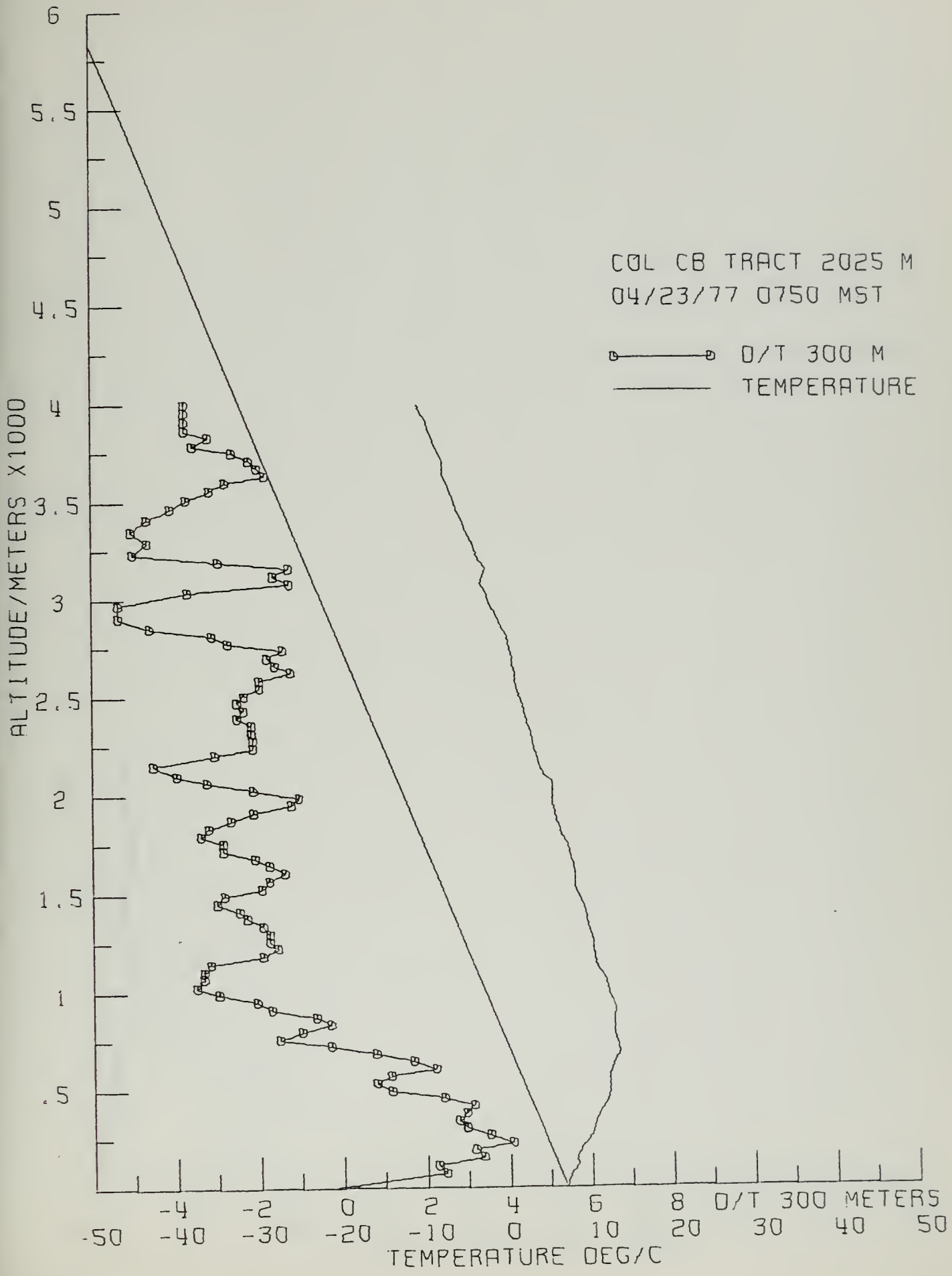
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/23/77 0750 MST
D/T 300 M
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ALTITUDE/METERS X1000
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2.5
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-4
-2
0
2
4
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D/T 300 METERS
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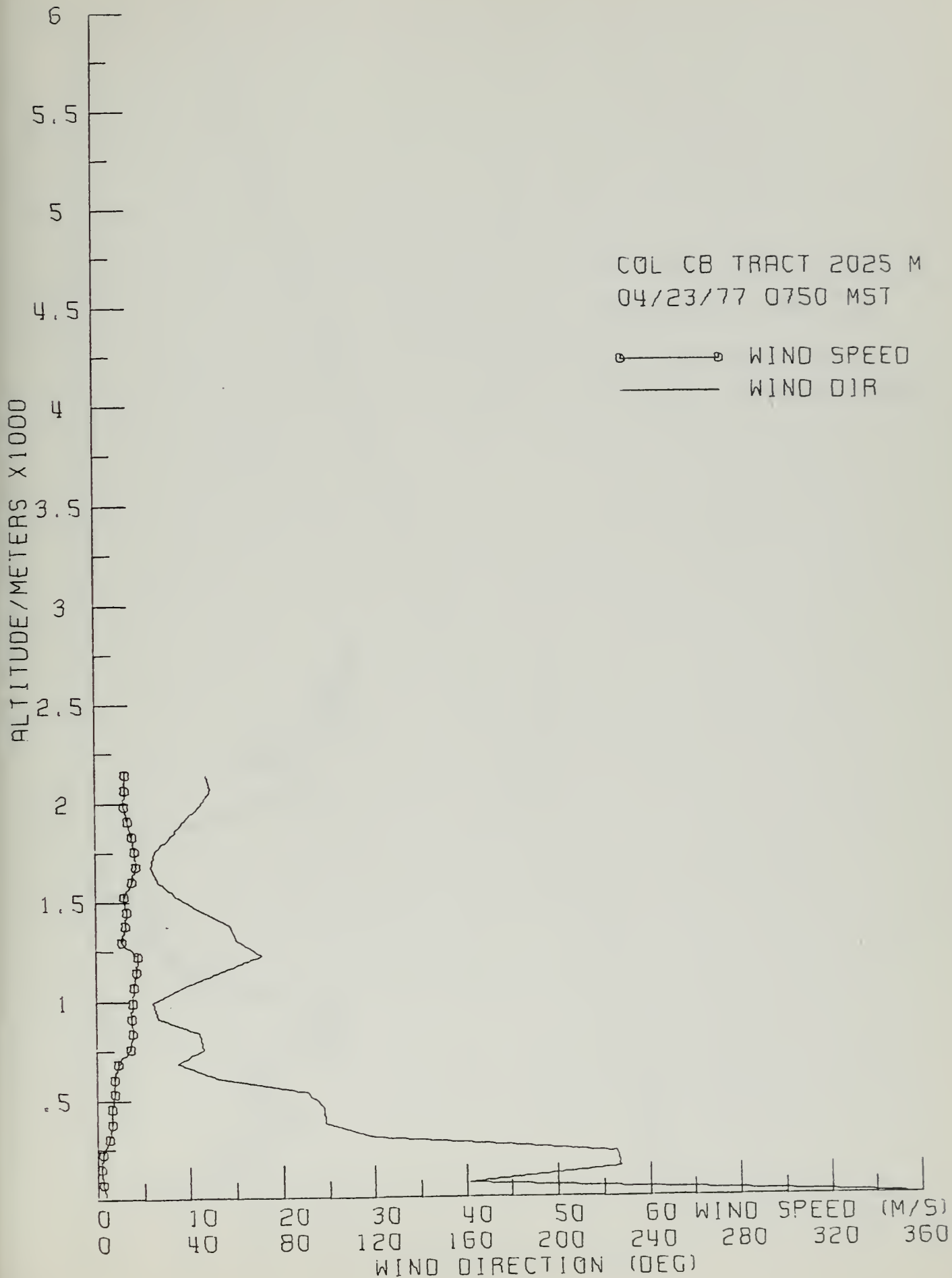
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/23/77 0750 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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4.5
4
3.5
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2
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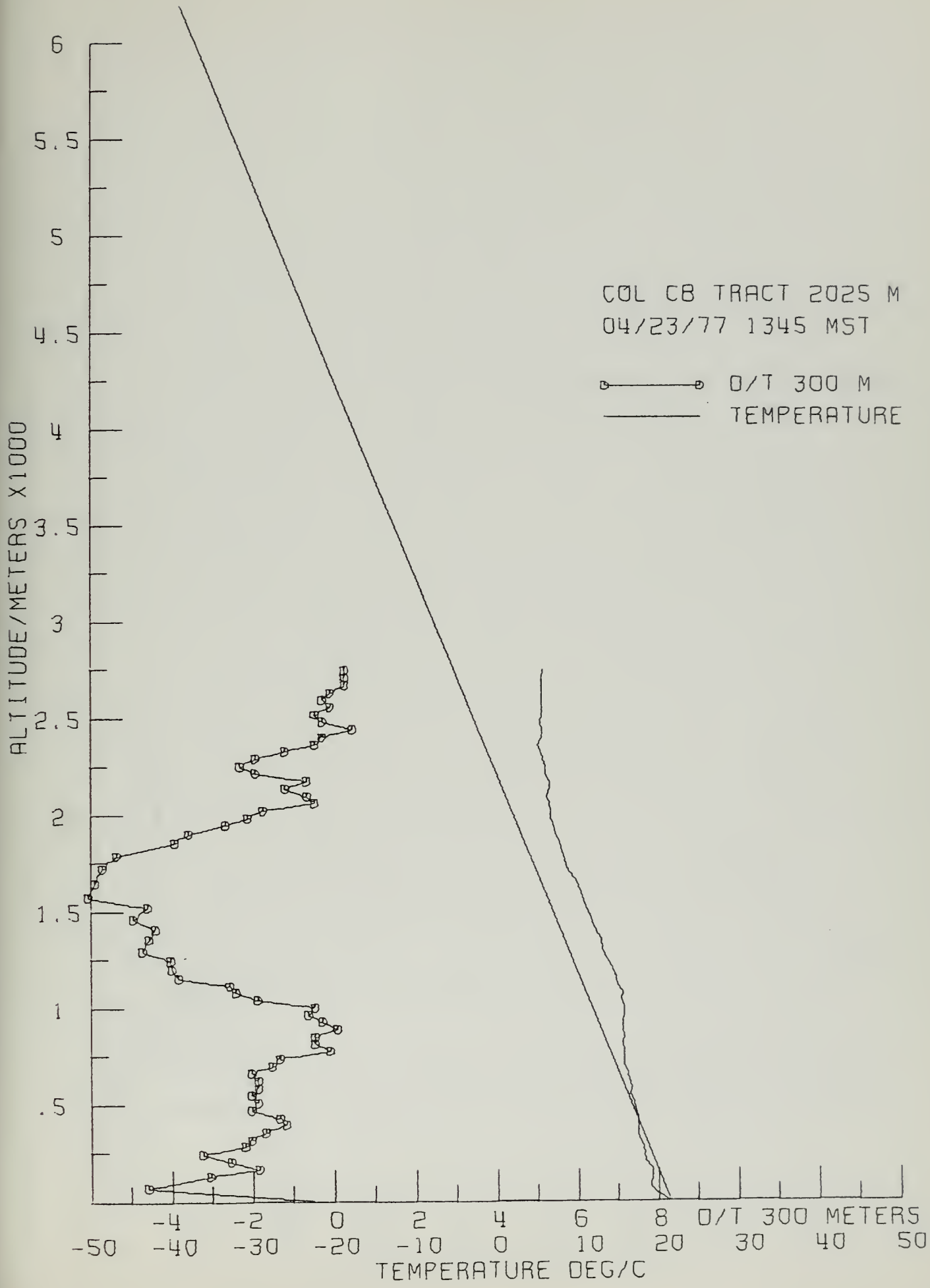
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/23/77 1345 MST
O/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
O/T 300 METERS
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20
30
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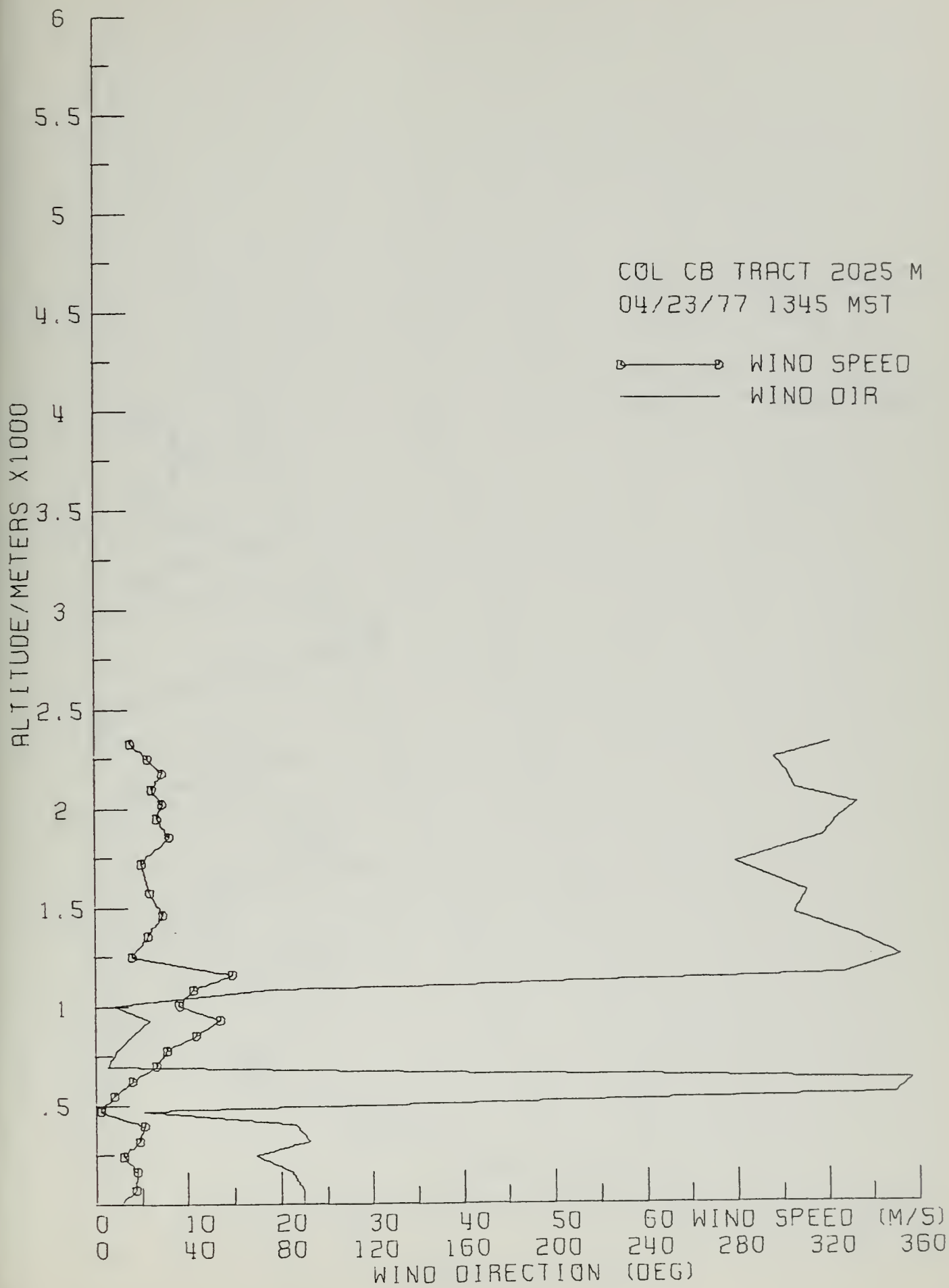
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/23/77 1345 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
5
4.5
4
3.5
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2.5
2
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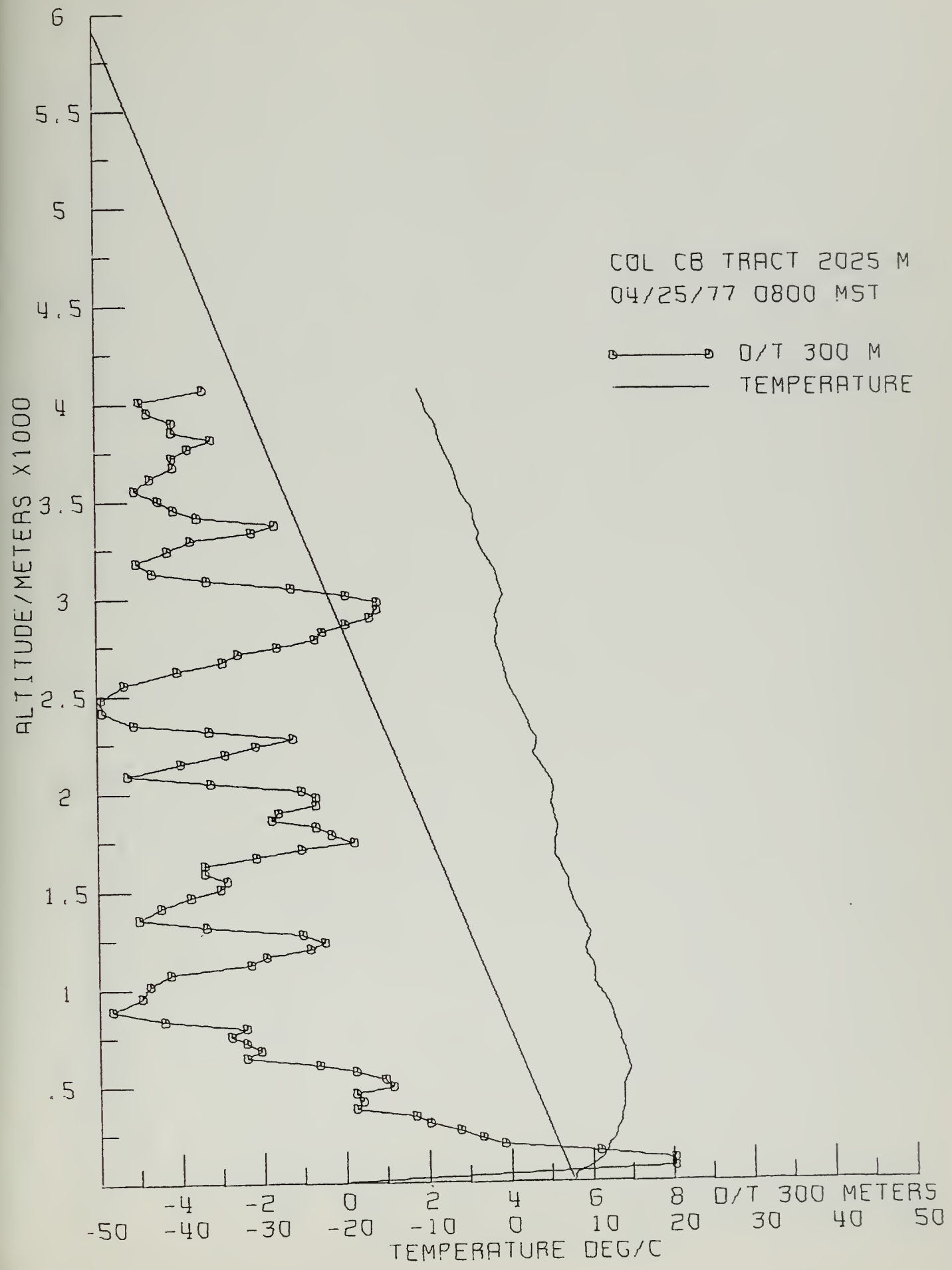
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/25/77 0800 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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D/T 300 METERS
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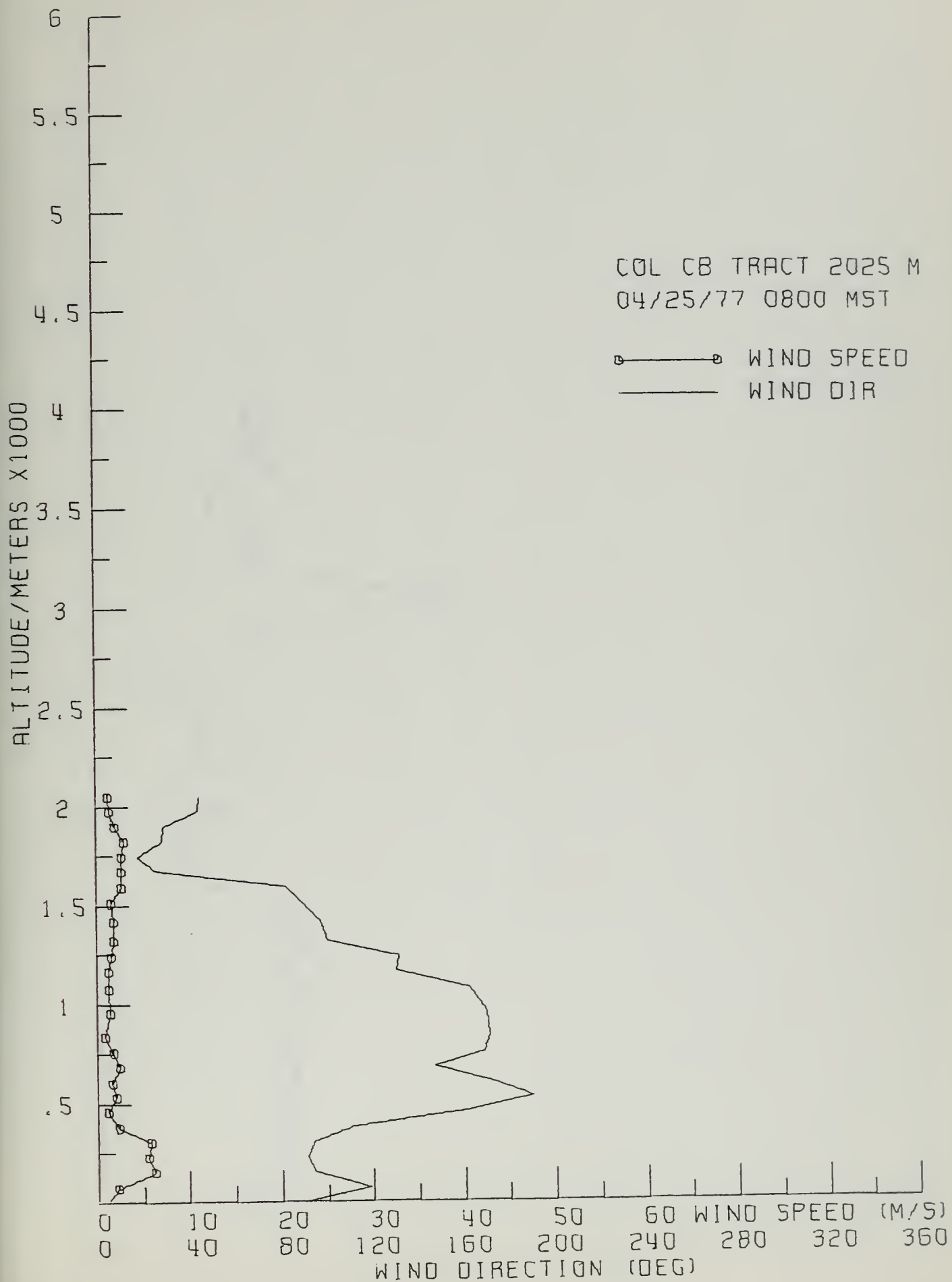
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/25/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
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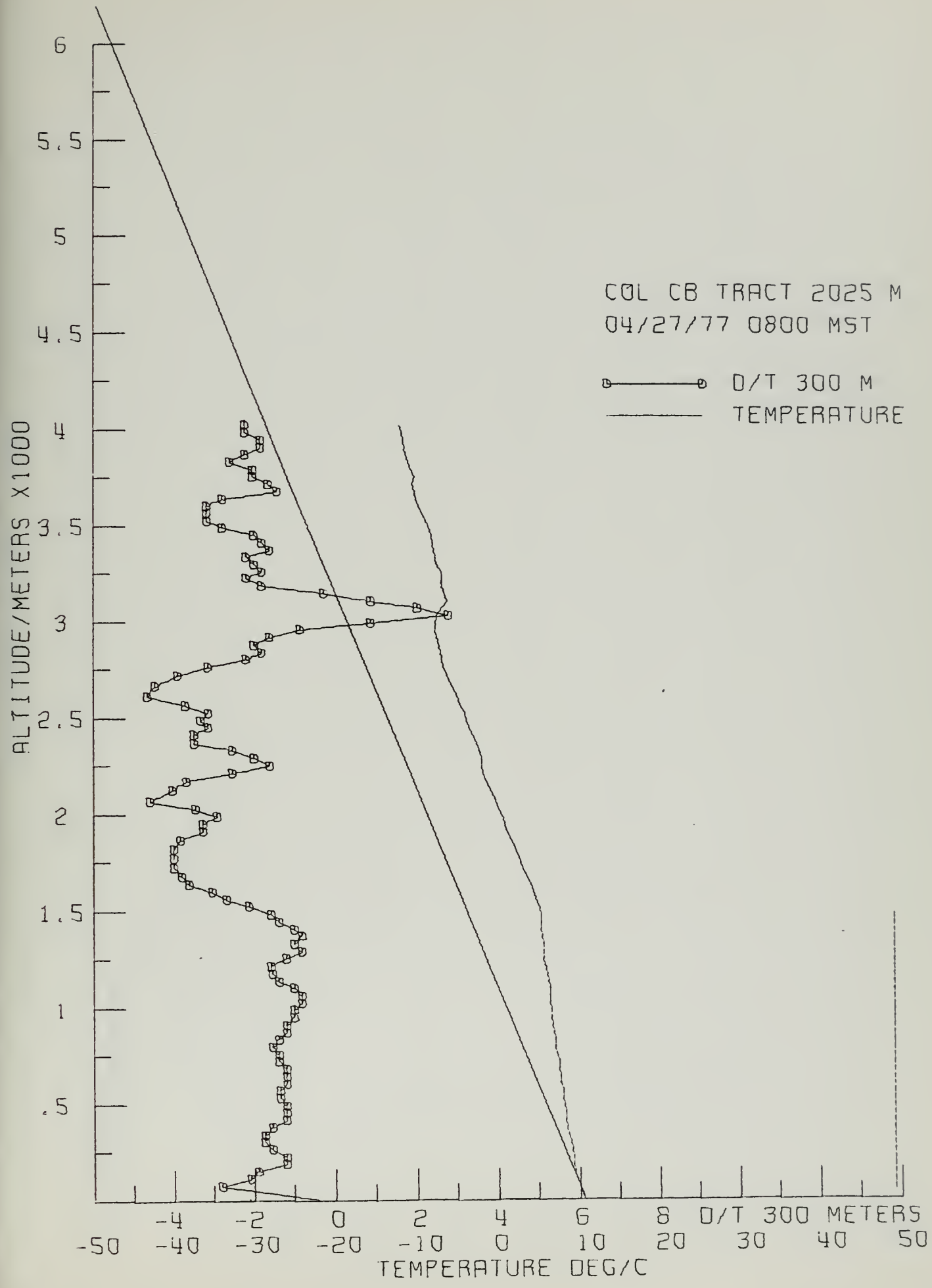
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/27/77 0800 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
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3.5
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D/T 300 METERS
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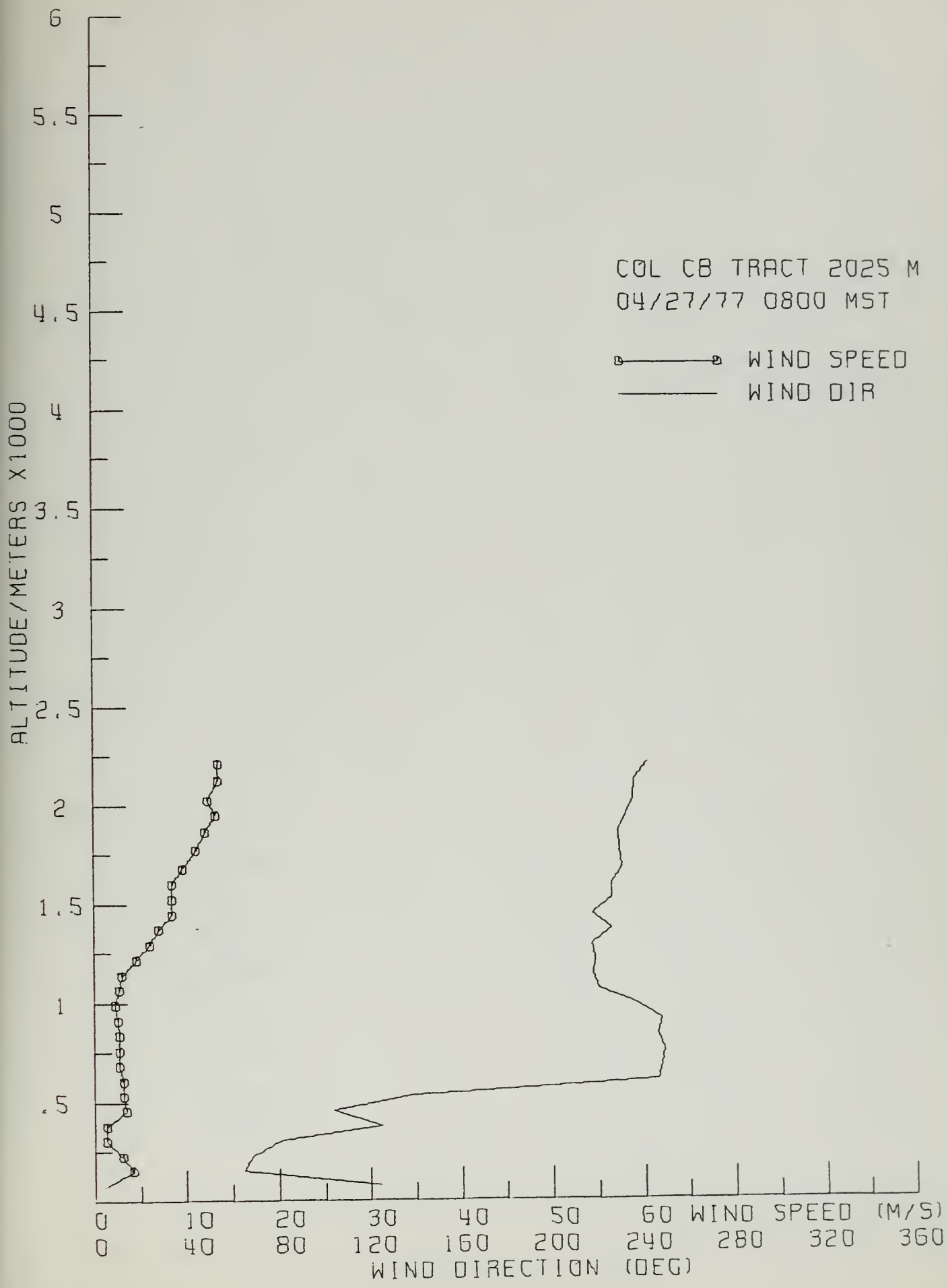
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/27/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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5.5
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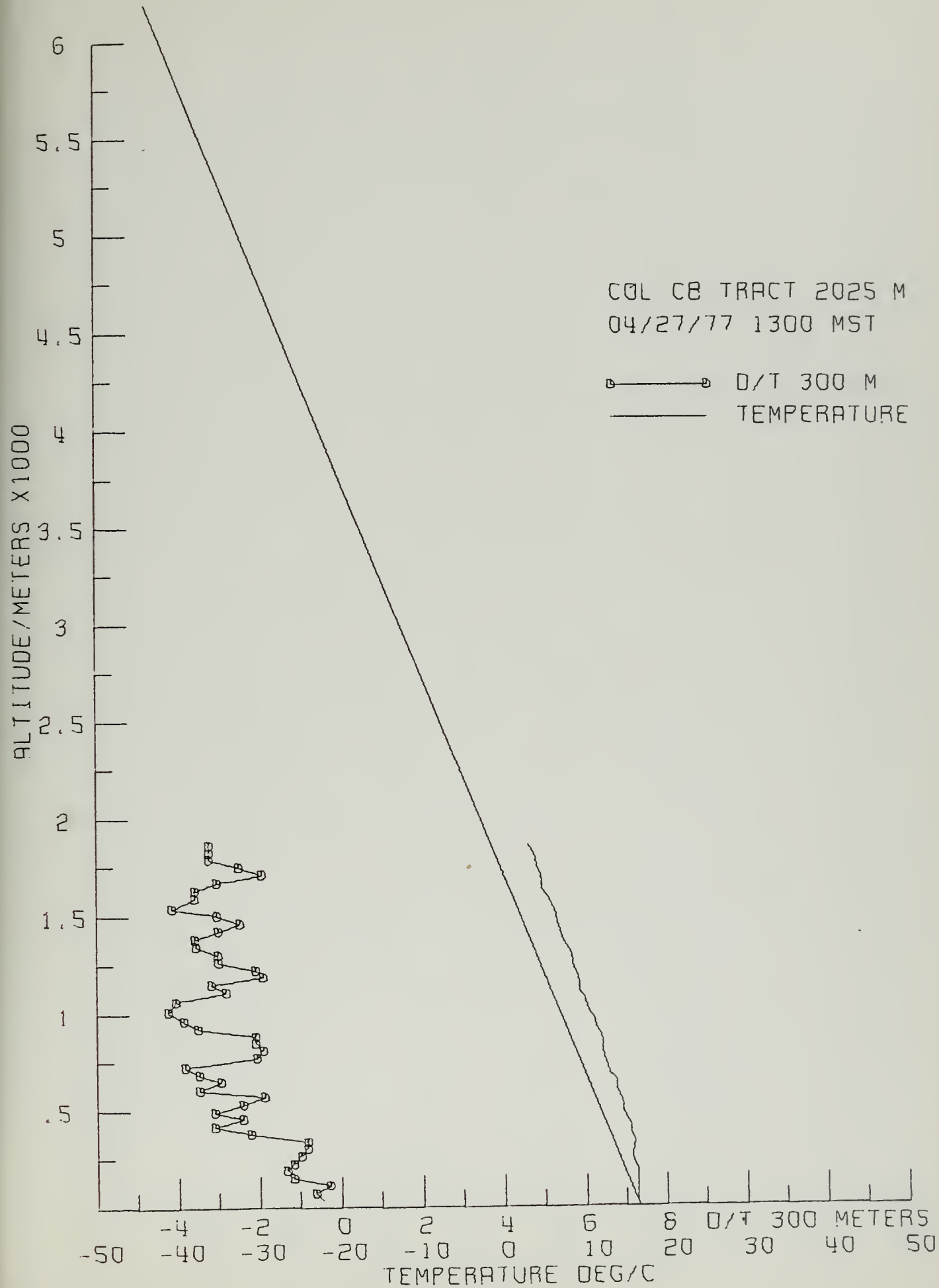
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/27/77 1300 MST
D/T 300 M
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ALTITUDE/METERS X1000
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4
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D/T 300 METERS
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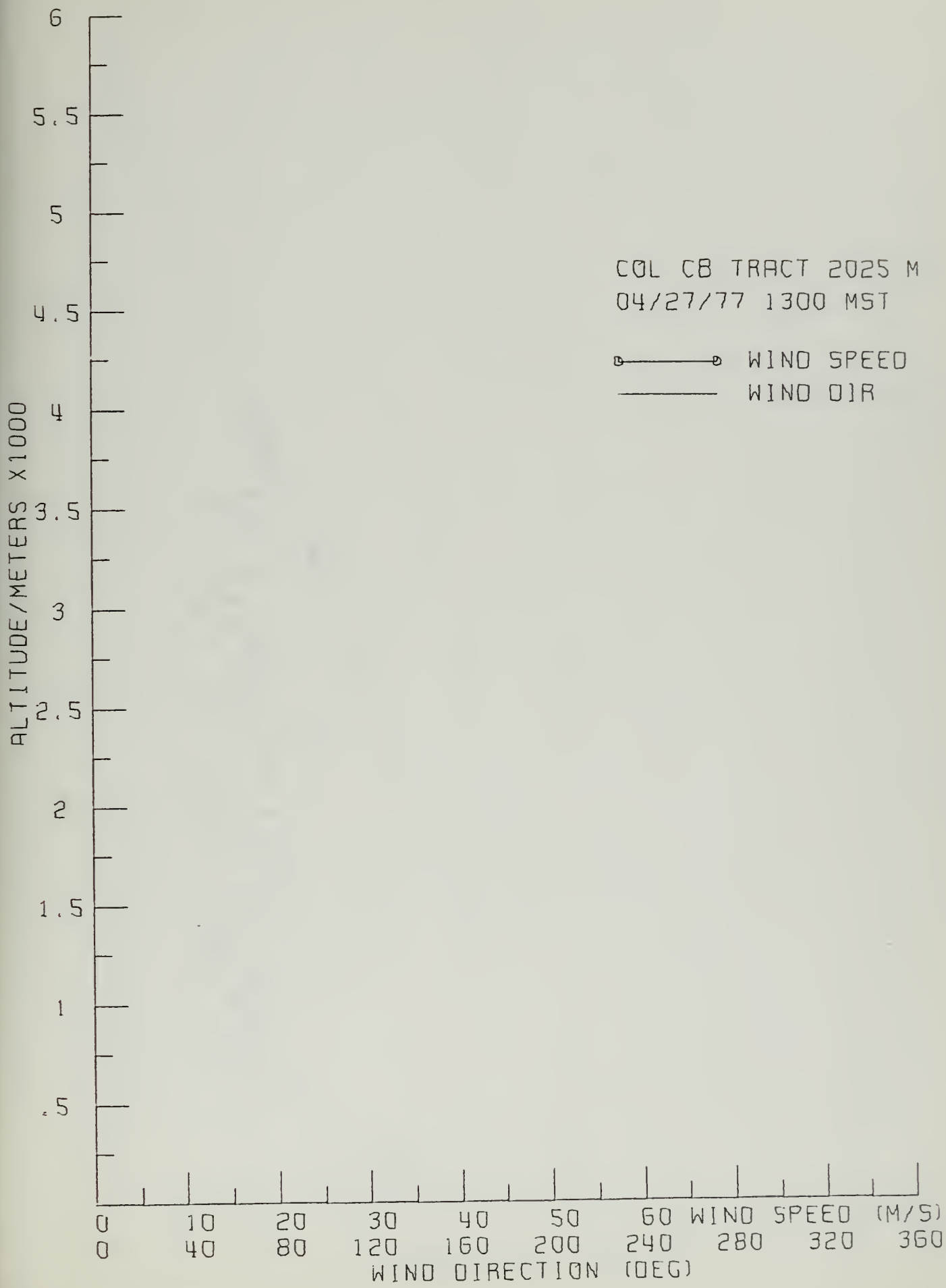
TEMPERATURE DEG/C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04/27/77 1300 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
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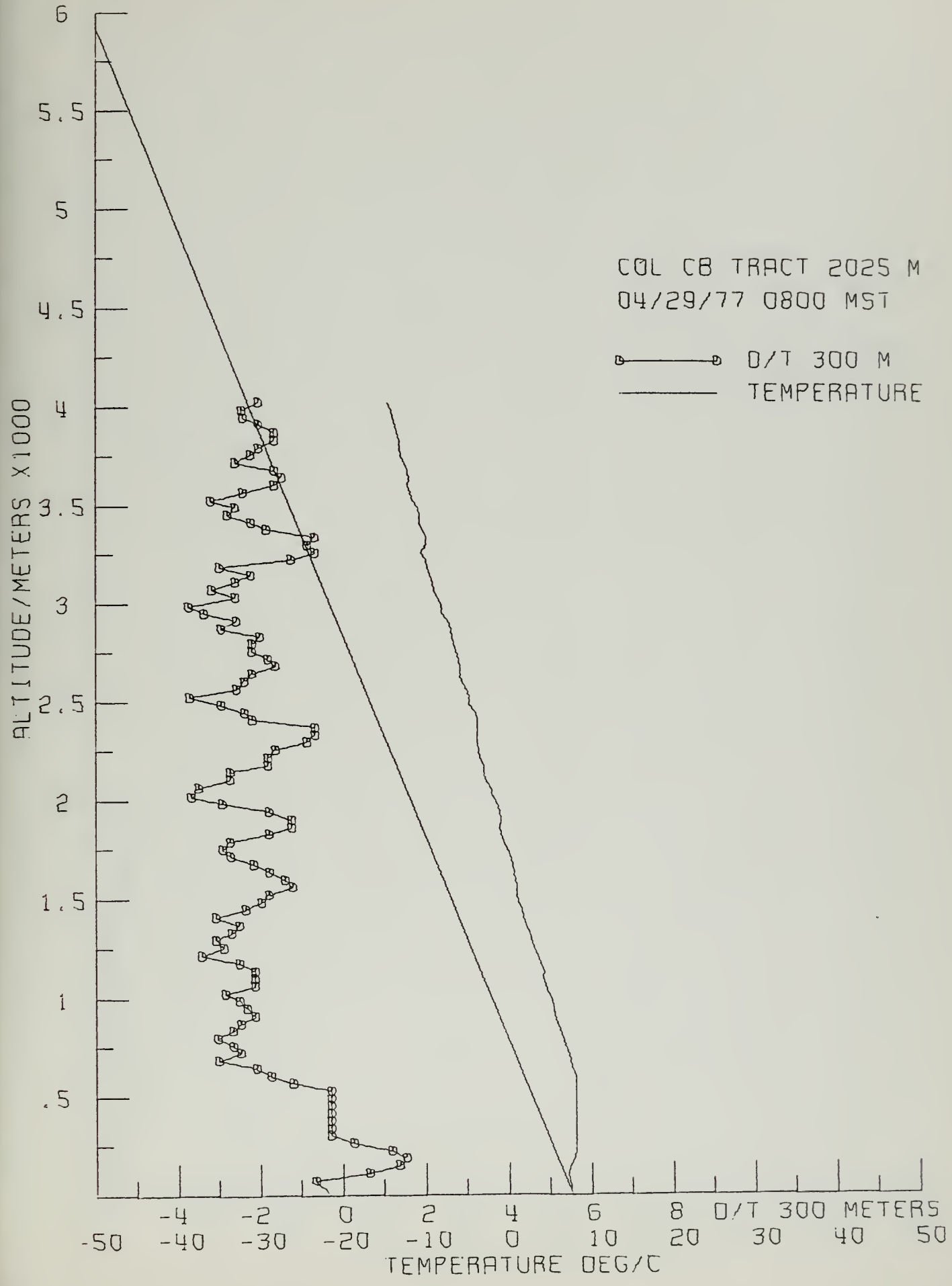
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)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04/29/77 0800 MST
O/T 300 M
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O/T 300 METERS
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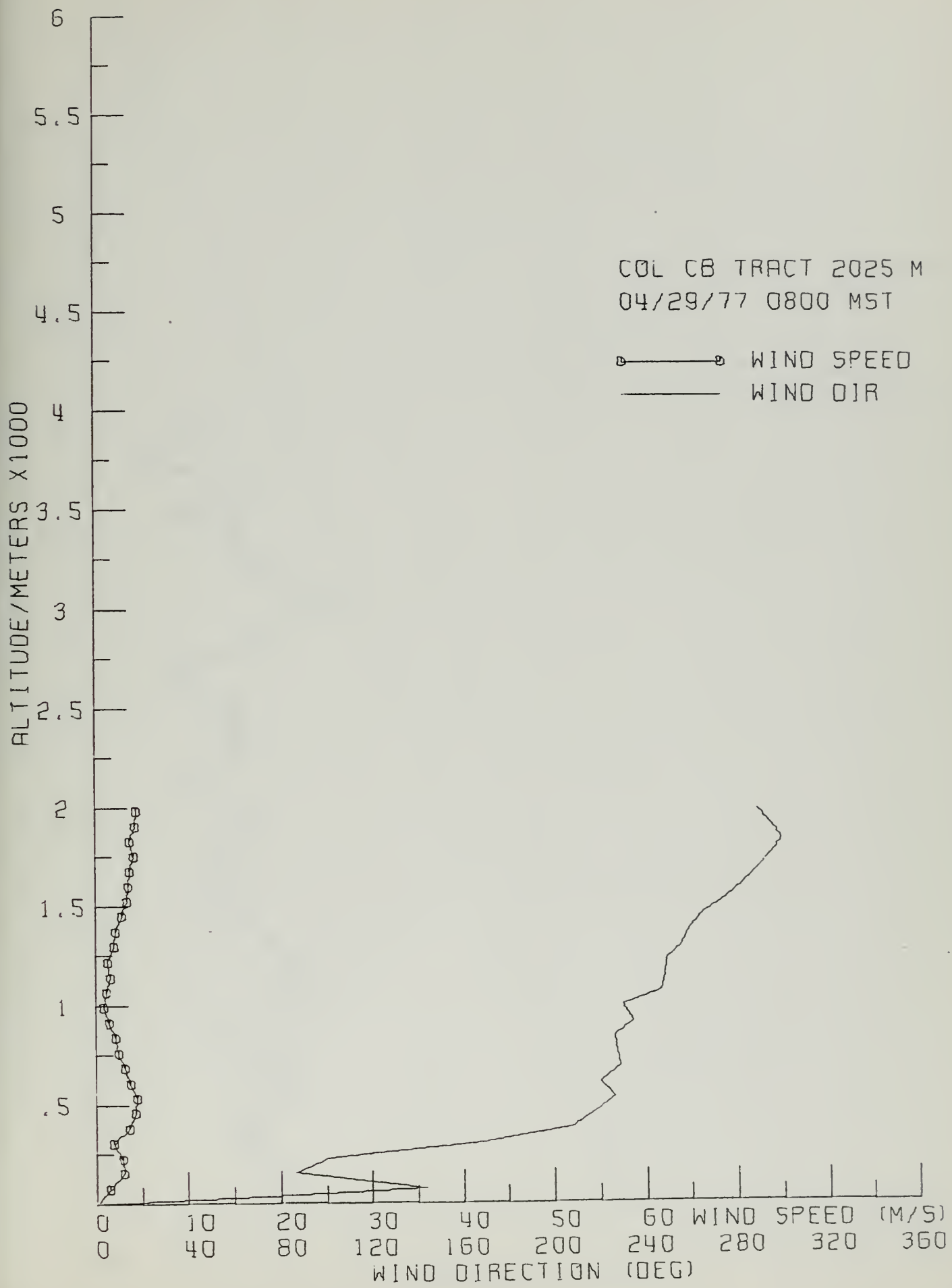
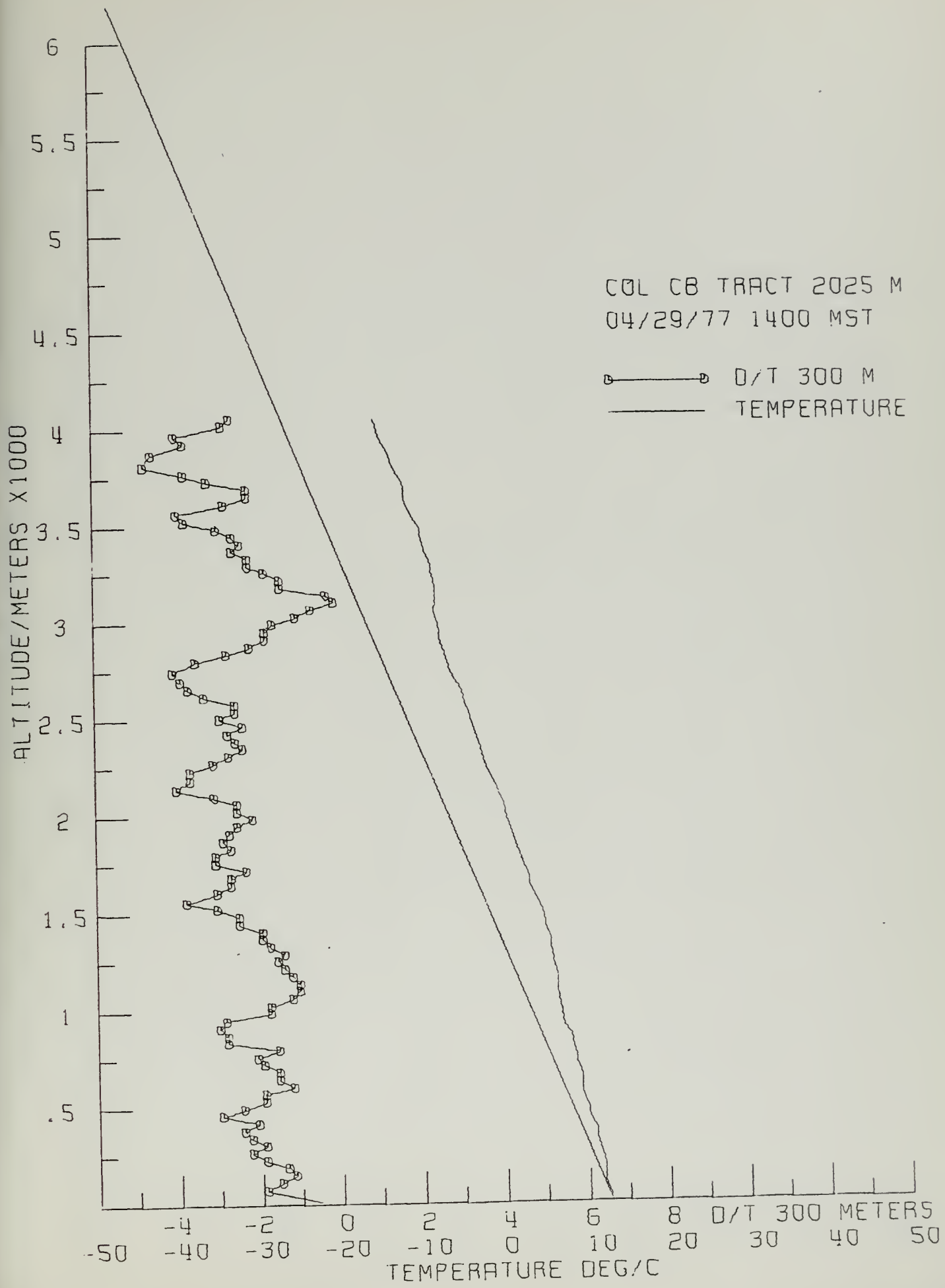
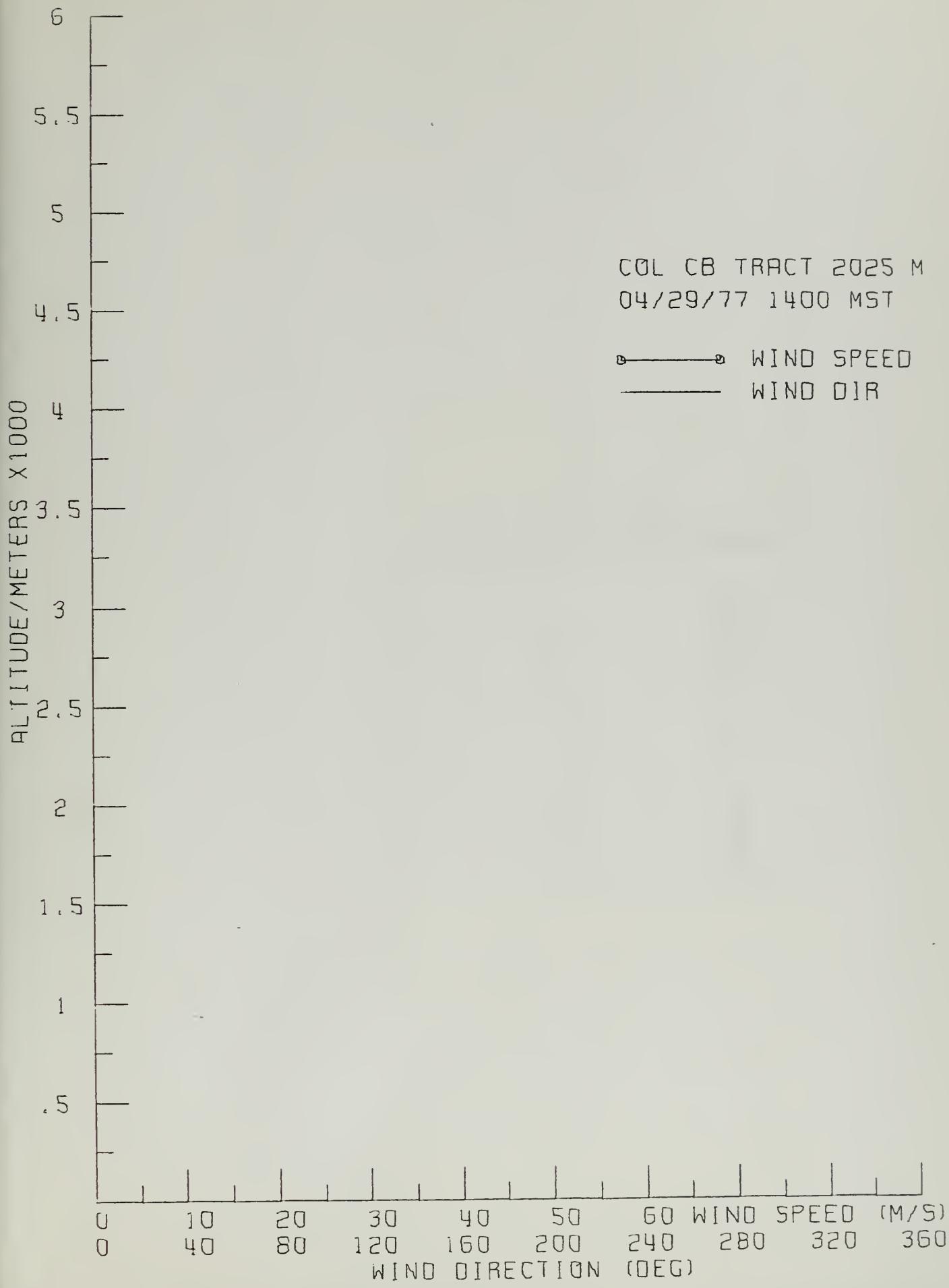
40
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/29/77 0800 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)


COL CB TRACT 2025 M
04/29/77 1400 MST
D/T 300 M
TEMPERATURE
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
-4
-2
0
2
4
6
8
D/T 300 METERS
-50
-40
-30
-20
-10
0
10
20
30
40
50
TEMPERATURE DEG/C


COL CB TRACT 2025 M
04/29/77 1400 MST
WIND SPEED
WIND DIR
ALTITUDE/METERS X1000
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5
1
.5
0 10 20 30 40 50 60 WIND SPEED (M/S)
0 40 80 120 160 200 240 280 320 360
WIND DIRECTION (DEG)

Form 1279–3
(June 1984)

BORROWE

TN 859 .C64 C3758 n

Monthly progress re
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DATE LOANED	BORROWER

USDI – BLM